



West Virginia Purchasing Division

2019 Washington Street, East
Charleston, WV 25305
Telephone: 304-558-2306
General Fax: 304-558-6026
Bid Fax: 304-558-3970

The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header

List View

General Information | Contact | Default Values | Discount | Document Information

Procurement Folder: 133232

Procurement Type: Central Master Agreement

Vendor ID:

Legal Name: ALLEGHENY SURVEYS INC

Alias/DBA:

Total Bid: \$598,425.00

Response Date:

Response Time:

SO Doc Code: CRFQ

SO Dept: 0313

SO Doc ID: DEP1600000017

Published Date: 10/5/15

Close Date: 10/29/15

Close Time: 13:30

Status: Closed

Solicitation Description:

Total of Header Attachments: 0

Total of All Attachments: 0



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

**State of West Virginia
 Solicitation Response**

Proc Folder : 133232

Solicitation Description : Addendum 01: Mapping Services in Northern West Virginia

Proc Type : Central Master Agreement

Date issued	Solicitation Closes	Solicitation No	Version
	2015-10-29 13:30:00	SR 0313 ESR10291500000001823	1

VENDOR
000000208319 ALLEGHENY SURVEYS INC

FOR INFORMATION CONTACT THE BUYER
 Beth Collins
 (304) 558-2157
 beth.a.collins@wv.gov

Signature X **FEIN #** **DATE**

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Control Surveying	600.00000	HOUR	\$130.000000	\$78,000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description : Control Surveying

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Topographic, Planimetric and Check Surveying	1800.00000	HOUR	\$90.000000	\$162,000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description : Topographic, Planimetric and Check Surveying

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	Terrestrial LIDAR Collection	600.00000	HOUR	\$120.000000	\$72,000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description : Terrestrial LIDAR Collection

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
5	Topographic Mapping - Aerial Photography (0-25 Acres)	15.00000	ACRE	\$200.000000	\$3,000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description : (including LIDAR Collections)
List only one rate for each category.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
6	Topographic Mapping - Aerial Photography (25-50 Acres)	30.00000	ACRE	\$110.000000	\$3,300.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description : (including LIDAR Collections)
List only one rate for each category.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
7	Topographic Mapping - Aerial Photography (50-100 Acres)	75.00000	ACRE	\$50.000000	\$3,750.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description : (including LIDAR Collections)
List only one rate for each category.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
8	Topographic Mapping - Aerial Photography (Over 100 Acres)	125.00000	ACRE	\$35.000000	\$4,375.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description : (including LIDAR Collections)
List only one rate for each category.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
9	Licensed Land Surveyor	600.00000	HOUR	\$95.000000	\$57,000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description : Professional Rates (Listed Disciplines Only)

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
10	Survey Manager	1200.00000	HOUR	\$65.000000	\$78,000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description : Professional Rates (Listed Disciplines Only)

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
11	Mapping/CAD Technician	2400.00000	HOUR	\$55.000000	\$132,000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description : Professional Rates (Listed Disciplines Only)

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
12	Travel Per Diem (Rate/Person)Day)	125.00000	EA	\$40.000000	\$5,000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description : Applicable to Survey Crews Only

SEALED BID

Buyer: Beth A. Collins
RFQ No.: DEP1600000017 (Version 2)
Bid Opening Date: October 29, 2015
Bid Opening Time: 1:30 PM, EST

West Virginia Department of Environmental Protection
Office of AML&R
601 57th Street SE
Charleston, WV 25304

C/O Department of Administration,
Purchasing Division
2019 Washington Street, East
Charleston, WV 25305



BIRCH RIVER OFFICE
237 Birch River Road
Birch River, WV 26610
phone: 304-649-8606
fax: 304-649-8608

BRIDGEPORT OFFICE
172 Thompson Drive
Bridgeport, WV 26330
phone: 304-848-5035
fax: 304-848-5037

ALUM CREEK OFFICE
P.O. Box 108 • 1413 Childress Rd
Alum Creek, WV 25003
phone: 304-756-2949
fax: 304-756-2948

RANSON OFFICE
401 South Fairfax Blvd, Suite 3
Ranson, WV 25438
phone: 304-724-5008
fax: 304-724-5010



October 28, 2015

West Virginia Department of Environmental Protection
Office of AML&R
601 57th Street SE
Charleston, WV 25304

c/o Beth A. Collins
Department of Administration, Purchasing Division
2019 Washington Street, East
Charleston, WV 25305

Re: Solicitation No. CRFQ 0313 DEP160000017 Version 2

Dear Ms. Collins:

Allegheny Surveys, Inc. appreciates the opportunity to provide this response to your CRFQ for “Mapping Services in Northern West Virginia (Open-End)”. Allegheny Surveys, Inc., established in 1988, is a full service surveying firm with four (4) offices throughout West Virginia, located in Alum Creek, Birch River, Bridgeport and Ranson. Our firm currently has sixty (60) employees, in the four offices, and the capacity to field thirteen (13) survey crews. It employs thirteen (13) Professional Surveyors and one Professional Engineer, all licensed in West Virginia. Our firm is highly qualified and experienced in performing the services you require, and meets all requirements listed in the Specifications for the “Request for Quotation – Mapping Services in Northern WV”.

Following are responses to the line items in the Specifications:

3.3 Mapping Consultant Qualifications Requirements

3.3.1 Professional capabilities and staff

❖ Professional Surveyors

Birch River Office

- Stacey O. Brown - WV PS #2180
- Marshall W. Robinson – WV PS #835
- Ben R. Singleton – WV PS #2092
- Damon L. Wilkewitz – WV PS #2123
- Roger D. Tomlin – WV PS #2071
- Dwayne A. Hall – WV PS #2089SU

BIRCH RIVER OFFICE

237 Birch River Road
Birch River, WV 26610
phone: 304-649-8606
fax: 304-649-8608

BRIDGEPORT OFFICE

172 Thompson Drive
Bridgeport, WV 26330
phone: 304-848-5035
fax: 304-848-5037

ALUM CREEK OFFICE

P.O. Box 108 • 1413 Childress Rd
Alum Creek, WV 25003
phone: 304-756-2949
fax: 304-756-2948

RANSON OFFICE

401 South Fairfax Blvd, Suite 3
Ranson, WV 25438
phone: 304-724-5008
fax: 304-724-5010

Alum Creek Office

- David W. King - WV PS #2004

Bridgeport Office

- Bradley D. Miller – WV PS #2167
- Dwayne D. Matheny – WV PS #2070
- Kenneth J. Plum – WV PS #2216
- William G. Yetzer – WV PS #2213

Ranson Office

- Karen K. Brill – WV PS #908
- Matthew R. Jones – WV PS #2128

❖ **Field Staff and Survey Crew**

Birch River Office

- Rick Bloir – Senior Party Chief
- Johnathan McKinney – Rodman
- Sam Gibson – Rodman

Alum Creek Office

- David Fisher – Party Chief
- Matthew Lenox – Rodman
- Thomas Johnson – Rodman

Bridgeport Office

- Josh Smith – Party Chief
- Phillip Harper - Rodman
- Zackary Lyons - Rodman

Ranson Office

- Matthew Jones – Party Chief
- Casey Stollings – Rodman

❖ **CAD Technicians (AutoCAD Version 2016)**

Birch River Office

- Scott Brown
- Tim Rutledge

Alum Creek Office

- Tony Jeffery

Bridgeport Office

- Christopher Renneman
- Derek Rader
- Zackary Lyons

Ranson Office

- Matthew Jones

❖ **Capacity to process and complete multiple projects within the designated time frames**

With the ability to field thirteen (13) survey crews and seven (7) CAD Technicians available to perform the mapping, Allegheny Surveys, Inc. has the capacity to process and complete multiple projects in the timeframe required by the WV DEP.

Mapping Consultant must submit the following at the time of bid:

- Names of individuals performing work including registration/licensing numbers.
 - ◆ Stacey O. Brown, Professional Surveyor – WV PS #2180
 - ◆ Damon L. Wilkewitz, Professional Surveyor – WV PS #2123
 - ◆ David W. King, Professional Surveyor – WV PS #2004
 - ◆ Bradley D. Miller, Professional Surveyor – WV PS #2167
 - ◆ Karen K. Brill, Professional Surveyor – WV PS #908

- List of similar work completed by your firm (include five (5) recent examples).
 - ◆ US Army Corps of Engineers, Huntington District – Mohawk Dam – Coshocton County, OH – perform site survey and mapping of large earthen dam, concrete inlet and outlet structures, 18 acre spillway, campground area and residential structures using Terrestrial LiDAR Scanning, 110 acres
 - ◆ Eastern Arrow Corp., Inc. - Garden Ground Highwalls - Phase I - Fayette County, WV - establish horizontal and vertical control, topographic survey and construction stakeout, prepare cross-sections, site plans and volume calculations for as-built for a large AML project at the Summit Bechtel Reserve Boy Scout Camp, 147.1 acres total
 - ◆ Green Mountain Company - Zebb's Creek Highwall #2 – Barbour, WV - topographic survey and construction stakeout for AML project, prepare as-built information for submittal, 8.6 acres
 - ◆ Cowgirl Up, Inc. – Saul's Run Carpenter Landslide – Lewis County, WV – original ground topographic survey, construction stakeout, prepare cross-sections, site plans and volume calculations for as-built, 8.6 acres
 - ◆ Eastern Arrow Corp., Inc. - Barker Portals & Strip - Barbour County, WV - establish horizontal and vertical control, topographic survey and construction stakeout, prepare as-built mapping and reports, 17.6 acres
 - ◆ Cowgirl Up, Inc. - Blackwater Doser - Phase II – Tucker County, WV - survey & mapping for AML project located between Davis & Blackwater Falls State Park

- List of similar work currently under contract.
 - ◆ US Army Corps of Engineers, Huntington District – Sutton Dam Horizontal/Vertical Control Survey and Terrestrial LiDAR Scanning/Mapping
 - ◆ JM Smith Engineering - topo and as built of a 10 acre site at the Martinsburg Veterans Administration Hospital
 - ◆ WV Bunrootis LLC - topographic survey of Indian Creek near Pullman, WV for the purposes of a stream mitigation project
 - ◆ L & W Enterprises – topographic survey of slide area and storm sewer asbuilt survey at Department of Labor campus in Charleston, WV

- Name of Project Manager anticipated for this work.
 - ◆ Stacey O. Brown – WV PS #2180

- Number of years your company has performed this type of work.
 - ◆ Allegheny Surveys, Inc. has performed topographic field surveys and the mapping thereof, for numerous projects of various sizes over the last twenty-five (25) years.

- Development of Topographic Mapping from Field Survey as well as from Aerial Photographs or currently utilized and developing technologies.
 - ◆ Projects performed by Allegheny Surveys have included surveys for AML sites, airports, stream mitigation and enhancement, surface mines, land development and improvement projects, natural gas sites and government installations. Our firm has experience in aerial photography and mapping having worked closely with several aerial mapping companies on various projects in the past. In addition, Allegheny Surveys has performed numerous Terrestrial LiDAR Scanning projects over the last several years and has received national recognition for the work managed by Damon L. Wilkewitz, PS. Allegheny Surveys, Inc. will sub-contract the Aerial Photography, Aerial LiDAR and Aerial Mapping portions of this contract. Should Unmanned Aerial Systems (UAS) usage become widely operable during the period of this contract, this developing technology may also be implemented in the performance of these services.

❖ **Contract Manager**

Contract Manager: Stacey O. Brown, PS
Telephone Number: 304.649.8606
Fax Number: 304.649.8608
Email Address: sbrown@alleghenysurveys.com

Enclosed is a copy of our qualifications packet detailing some of the projects that we have performed in the past and our Senior Personnel. Also included is a list of surveying equipment and software currently in use in the performance of our services. We appreciate the opportunity to provide you with this response to the CRFQ. Should you have any questions or comments, please do not hesitate to contact me at (304) 649-8606.

Cordially,



Stacey O. Brown, PS
Mapping Manager
Birch River Office



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

State of West Virginia
 Request for Quotation

Proc Folder: 133232

Doc Description: Addendum 01: Mapping Services in Northern West Virginia

Proc Type: Central Master Agreement

Date Issued	Solicitation Closes	Solicitation No	Version
2015-10-05	2015-10-29 13:30:00	CRFQ 0313 DEP1600000017	2

BID RECEIVING LOCATION

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

VENDOR

Vendor Name, Address and Telephone Number:

Allegheny Surveys, Inc.
237 Birch River Road
Birch River, WV 26610
304.649.8606

FOR INFORMATION CONTACT THE BUYER

Beth Collins
 (304) 558-2157
 beth.a.collins@wv.gov

Signature X

FEIN # 55-0732600

DATE October 28, 2015

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

ADDITIONAL INFORMATION:

Addendum No. 01:

This addendum is issued to modify the solicitation per the attached documentation and the following:

1. To delete line 4 on the commodity lines for 'Mobile Scanner' this line was added in error.

No other changes.

CRFQ

THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, IS SOLICITING BIDS FOR AN OPEN END CONTRACT FOR MAPPING SERVICES IN THE NORTHERN COUNTIES OF WEST VIRGINIA, PER THE ATTACHED SPECIFICATIONS AND DOCUMENTATION.

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV25304 US		ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Control Surveying	600.00000	HOUR	\$130.00	\$78,000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description :

Control Surveying

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV25304 US		ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
2	Topographic, Planimetric and Check Surveying	1800.00000	HOUR	\$90.00	\$162,000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description :

Topographic, Planimetric and Check Surveying

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV25304 US		ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
3	Terrestrial LIDAR Collection	600.00000	HOUR	\$120.00	\$72,000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description :
Terrestrial LIDAR Collection

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV25304 US		ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
4	Mobile Scanner	300.00000	HOUR	(Line Inactive)	

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description :
Line is inactive, not a bidable line.
Mobile Scanner

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV25304 US		ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
5	Topographic Mapping - Aerial Photography (0-25 Acres)	15.00000	ACRE	\$200.00	\$3,000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description :

(including LIDAR Collections)

List only one rate for each category.

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV25304 US		ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
6	Topographic Mapping - Aerial Photography (25-50 Acres)	30.00000	ACRE	\$110.00	\$3,300.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description :

(including LIDAR Collections)

List only one rate for each category.

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV25304 US		ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
7	Topographic Mapping - Aerial Photography (50-100 Acres)	75.00000	ACRE	\$50.00	\$3,750.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description :

(including LIDAR Collections)

List only one rate for each category.

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV25304 US		ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
8	Topographic Mapping - Aerial Photography (Over 100 Acres)	125.00000	ACRE	\$35.00	\$4,3750.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description :
(including LIDAR Collections)
List only one rate for each category.

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV25304 US		ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
9	Licensed Land Surveyor	600.00000	HOUR	\$95.00	\$57,000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description :
Professional Rates (Listed Disciplines Only)

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV25304 US		ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
10	Survey Manager	1200.00000	HOUR	\$65.00	\$78,000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description :

Professional Rates (Listed Disciplines Only)

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV25304 US		ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
11	Mapping/CAD Technician	2400.00000	HOUR	\$55.00	\$132,000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description :

Professional Rates (Listed Disciplines Only)

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV25304 US		ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
12	Travel Per Diem (Rate/Person)Day)	125.00000	EA	\$40.00	\$5,000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description :

Applicable to Survey Crews Only

SCHEDULE OF EVENTS

Line	Event	Event Date
1	Tech Question Deadline at 5:00PM, EST	2015-10-02

DEP1600000017	Document Phase Final	Document Description Addendum 01: Mapping Services in Northern West Virginia	Page 7 of 7
----------------------	--------------------------------	---	------------------------------

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

SOLICITATION NUMBER: CRFQ DEP1600000017

Addendum Number: 01

The purpose of this addendum is to modify the solicitation identified as (“Solicitation”) to reflect the change(s) identified and described below.

Applicable Addendum Category:

- Modify bid opening date and time
- Modify specifications of product or service being sought
- Attachment of vendor questions and responses
- Attachment of pre-bid sign-in sheet
- Correction of error
- Other

Description of Modification to Solicitation:

This addendum is issued to modify the solicitation per the attached documentation and the following:

1. To delete line 4 on the commodity lines for 'Mobile Scanner' this line was added in error.

The bid opening date will remain the same of October 29, 2015 at 1:30 PM, EST

No other changes.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFQ DEP1600000017

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:

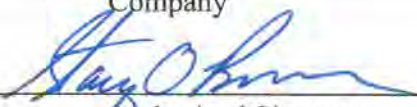
(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" 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.

Allegheny Surveys, Inc.

Company



Authorized Signature

10/28/15

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.
Revised 6/8/2012

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, 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: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. 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.

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.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"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.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Allegheny Surveys, Inc.

Authorized Signature: *[Signature]* Date: 10/28/15

State of West Virginia

County of Nicholas, to-wit:

Taken, subscribed, and sworn to before me this 28th day of October, 2015.

My Commission expires December 27, 2019.

AFFIX SEAL HERE

NOTARY PUBLIC *[Signature]*

Purchasing Affidavit (Revised 07/01/2012)



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 Vendor Preference, if applicable.

- 1. **Application is made for 2.5% 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% 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% 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% 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% 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% 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.
- 7. **Application is made for preference as a non-resident small, women- and minority-owned business, in accordance with *West Virginia Code* §5A-3-59 and *West Virginia Code of State Rules*.**
 Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, women- and minority-owned business.

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: Allegheny Surveys, Inc.

Signed: 

Date: October 28, 2015

Title: Mapping Manager



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
7/31/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER The James B. Oswald Company 1100 Superior Avenue, Suite 1500 Cleveland OH 44114	CONTACT NAME: Vanetee Bayne	
	PHONE (A/C. No., Ext): 216-839-2800	FAX (A/C. No.): 216-839-2815
E-MAIL ADDRESS: VBayne@oswaldcompanies.com		
INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A: Beazley USA Services, Inc.		
INSURER B:		
INSURER C:		
INSURER D:		
INSURER E:		
INSURER F:		

INSURED TRANS-1

Allegheny Surveys, Inc
 237 Birch River Rd
 Birch River WV 26610-0438

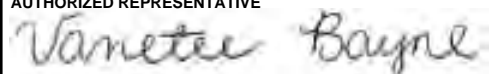
COVERAGES **CERTIFICATE NUMBER:** 100134784 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR _____ GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ _____ \$	
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ _____ \$	
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED _____ RETENTION \$ _____						EACH OCCURRENCE \$ AGGREGATE \$ _____ \$	
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y/N If yes, describe under DESCRIPTION OF OPERATIONS below						<input type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$	
A	Professional Liability Claims Made Retro Date:08/05/03	N	Y	V15V1T150801	8/5/2015	8/5/2016	Each Claim \$1,000,000 Aggregate \$1,000,000	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Waiver of Subrogation as designated above is provided when required of the Named Insured by written contract or agreement.

CERTIFICATE HOLDER Specimen For Purposes of Evidencing Coverage Only WV 26610-0438	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
--	--



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

08/6/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER AmWINS Program Underwriters, Inc. 214 Senate Avenue Suite 201 Camp Hill, PA 17011	CONTACT NAME: Jodie Schock	
	PHONE (A/C, No, Ext): 717.214.7583	FAX (A/C, No): 717.214.2801
	E-MAIL ADDRESS: jodie.schock@amwins.com	
	INSURER(S) AFFORDING COVERAGE	
	INSURER A: Brickstreet Mutual Insurance Company	
	NAIC # 15762	
INSURED Allegheny Surveys Inc 237 Birch River Road Birch River, WV 26610	INSURER B:	
	INSURER C:	
	INSURER D:	
	INSURER E:	
	INSURER F:	
	INSURER G:	

COVERAGES**CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHE DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	GENERAL LIABILITY						EACH OCCURRENCE	\$
	<input type="checkbox"/> COMMERCIAL GENERAL LIABILITY	<input type="checkbox"/>	<input type="checkbox"/>				DAMAGE TO RENTED PREMISES (Ea occurrence)	\$
	<input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/>						MED EXP (Any one person)	\$
							PERSONAL & ADV INJURY	\$
							GENERAL AGGREGATE	\$
	GEN'L AGGREGATE LIMIT APPLIES PER:						PRODUCTS - COMP/OP AGG	\$
	<input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/>							\$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	\$
	<input type="checkbox"/> ANY AUTO						BODILY INJURY (Per Person)	\$
	<input type="checkbox"/> ALL OWNED AUTOS						BODILY INJURY (Per accident)	\$
	<input type="checkbox"/> HIRED AUTOS						PROPERTY DAMAGE (Per accident)	\$
	UMBRELLA LIAB						EACH OCCURRENCE	\$
	<input type="checkbox"/> EXCESS LIAB						AGGREGATE	\$
	<input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$							\$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			WCB1021532	8/5/2015	8/5/2016	<input checked="" type="checkbox"/> WC STATUTORY LIMITS	<input checked="" type="checkbox"/> OTHER
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICE/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATION below	<input type="checkbox"/> Y/N <input checked="" type="checkbox"/> Y	<input type="checkbox"/> Y <input checked="" type="checkbox"/> Y				E.L. EACH ACCIDENT	\$1,000,000
							E.L. DISEASE - EA EMPLOYEE	\$1,000,000
							E.L. DISEASE - POLICY LIMIT	\$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Blanket Waiver of Subrogation applies in the state of WV.
 Broad Form Employers' Liability applies in the state of WV.
 Federal Black Lung coverage applies in the state of WV.

CERTIFICATE HOLDER**CANCELLATION**

Evidence of Workers' Compensation coverage for Virginia, Kentucky, West Virginia, Tennessee and Pennsylvania.

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Jodie Schock

© 1988-2010 ACORD CORPORATION. All rights reserved.



State of West Virginia
DRUG FREE WORKPLACE CONFORMANCE AFFIDAVIT
West Virginia Code §21-1D-5

STATE OF West Virginia

COUNTY OF Nicholas, TO-WIT:

I, Stacey O. Brown, after being first duly sworn, depose and state as follows:

- 1. I am an employee of Allegheny Surveys, Inc.; and,
2. I do hereby attest that Allegheny Surveys, Inc.

maintains a valid written drug free workplace policy and that such policy is in compliance with West Virginia Code §21-1D-5.

The above statements are sworn to under the penalty of perjury.

Allegheny Surveys, Inc.
(Company Name)

By: [Signature]
Title: Mapping Manager
Date: October 28, 2015

Taken, subscribed and sworn to before me this 28th day of October, 2015.

By Commission expires 12-27-19

OFFICIAL SEAL
Notary Public, State Of West Virginia
MARY ANN KISER
51 Black Oak Rd.
Summersville, WV 26651
My Commission Expires December 27, 2019

[Signature]
(Notary Public)

THIS AFFIDAVIT MUST BE SUBMITTED WITH THE BID IN ORDER TO COMPLY WITH WV CODE PROVISIONS. FAILURE TO INCLUDE THE AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION OF THE BID.



**LAND DEVELOPMENT &
ENGINEERING DESIGN SOLUTIONS**



TABLE OF CONTENTS

Company Overview	Section 1
Construction Surveys.....	Section 2
3D Laser Scanning.....	Section 3
Real Estate Surveys	Section 4
Natural Resource Surveys	Section 5
GIS Services	Section 6
GPS Surveys.....	Section 7
Engineering Services	Section 8
Case Studies	Section 9
Our Team	Section 10
Equipment and Software.....	Section 11



COMPANY OVERVIEW

Originally founded in 1988 in Birch River, West Virginia as Allegheny Land Surveying, Allegheny Surveys, Inc. (incorporated in 1994) is a land-surveying firm that for many years provided the coal and timber industries with their surveying and mapping needs.

The firm specializes in large boundary surveys, often of several thousand acres, underground and surface mine surveys, construction surveys and topographic surveying. It has undertaken many large projects, including a 27,000 acre boundary survey, and a 45,000 acre boundary with numerous long-term clients who have remained faithful to it for years. In 1995, the firm undertook to learn to utilize GPS technology in its services, and has become a leader in that field since that time. It has performed extensive GPS control surveys all over West Virginia and also in Kentucky, Indiana, Illinois and Maryland.

The owner of the firm is Marshall Robinson, who has been a licensed professional surveyor in West Virginia since 1988, in Virginia, Kentucky and Ohio since 2005 and in Pennsylvania since 2009. Originally appointed by Governor Underwood to serve on the State Board of Examiners of Land Surveyors in 2000, he was re-appointed by Governor Wise in 2003 to serve a second three-year term. He is a former member of the Board of Directors of the West Virginia Association of Land

Surveyors and served as its president in 1993. He is currently President-elect and, will take office as President in February, 2014. He has extensive experience in mining and construction surveys, GPS control surveys, well location surveys and, especially, boundary surveys. He has given numerous seminars on boundary conflict and resolution, right-of-way and easement issues and GPS applications to land surveying.



Allegheny Surveys currently has sixty employees, in four offices, and the capacity to field thirteen crews. It employs thirteen licensed Professional Surveyors and a GIS Analyst.

In 2003, the company expanded by establishing an office in Weston, in northern West Virginia. In June of 2008, this office was moved farther north, to Bridgeport, to better accommodate its client base. In June of 2011, this office moved into a new 2500 sq. ft. office on Thompson Drive.

In May of 2008, Allegheny Surveys purchased the assets and hired all eleven employees of Lincoln Land Consultants, a surveying firm located near Alum Creek, just a few minutes southwest of the State Capitol in Charleston. This became the Alum Creek Office of Allegheny Surveys. It was awarded, in the summer of 2011, a 5-year small business contract with the Corps of Engineers.



COMPANY OVERVIEW CONTINUED

On December 23 of 2011, Marshall W. Robinson, President and sole shareholder of Allegheny Surveys, Inc. formed Trans-Allegheny Holdings, LLC, and became its single member and transferred all of the stock of Allegheny Surveys, Inc. to it on December 31, 2011. On the same day, Trans-Allegheny Holdings, LLC purchased a majority of the stock in Hornor Brothers Engineering of Clarksburg. Trey and John Hornor, great-grandsons of one of the two brothers that founded the firm in 1902, retain substantial interest in the company, and retain their respective positions of President and Survey Manager.

On January 1, 2012, Trans-Allegheny Holdings, LLC conveyed 16% of the total stock of Allegheny Surveys, Inc. to six senior Professional Surveyors: Ben Singleton, PS, Dwayne Hall, PS, Stacey Brown, PS, Dwayne Matheny, PS, Damon Wilkewitz, PS and David King, PS.

From a corporate perspective, this is a lot of “high end” activity. From a personal perspective, the acquisition of Hornor Brothers brings a group of talented stable and highly regarded professionals under the same roof

as Allegheny Surveys. Trey, John and Marshall operate professionally from and are driven by the same values that have motivated Marshall and the Senior Professionals of Allegheny Surveys and brought that firm to its current position of prominence. We believe that the merging of professional talents and personalities will greatly enhance both firms and their service to our clients.

In May 2014, Allegheny Surveys opened a new office at 401 South Fairfax Blvd., Ranson, WV. With the addition of Karen K. Brill, PS, Lisa McCauley, PE, and R. Michael Shepp, PS we add over 35 years of engineering and surveying experience to our company.



CONSTRUCTION SURVEYS

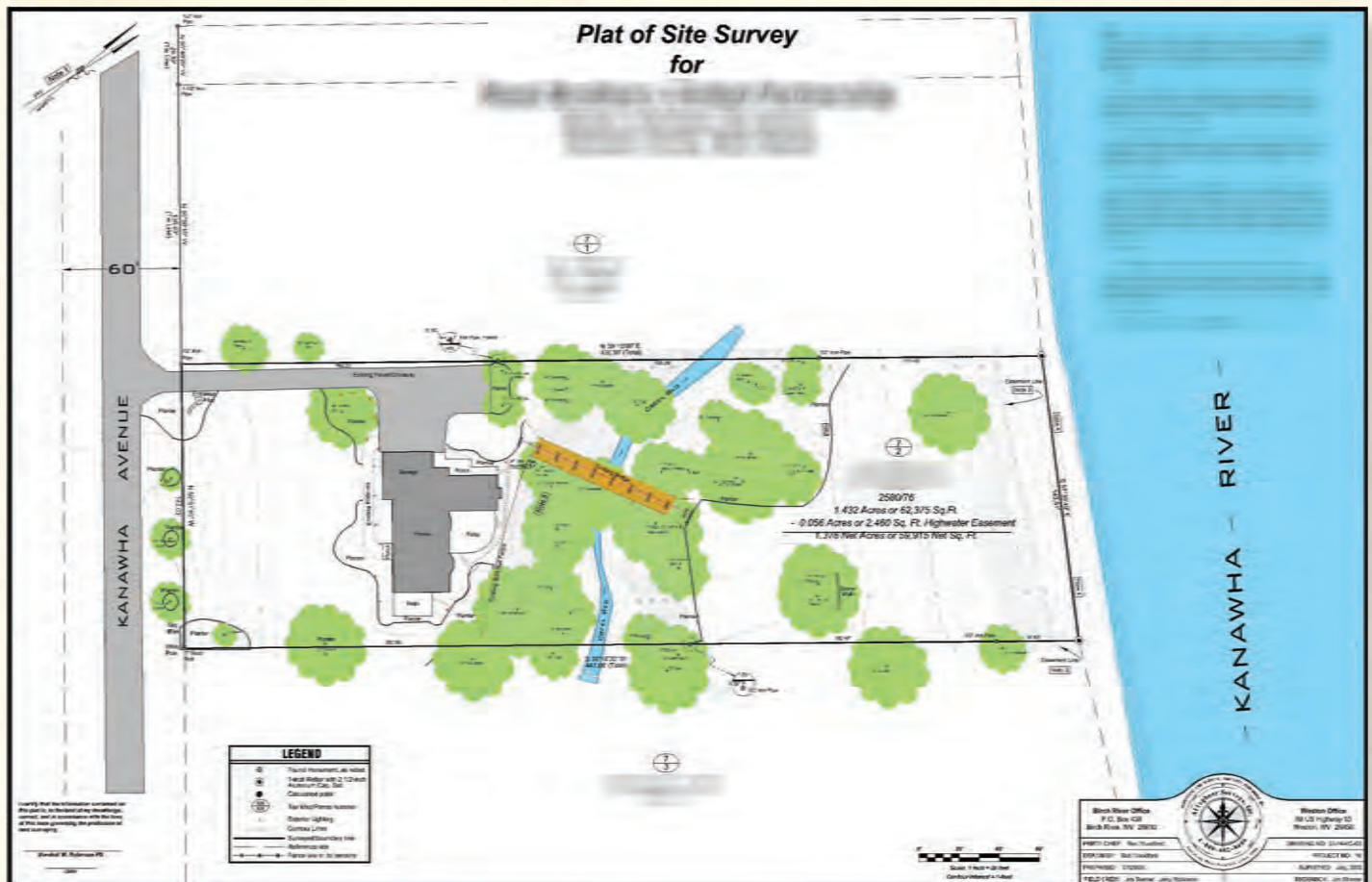


CONSTRUCTION SURVEYS

Allegheny Surveys has on its staff several senior party chiefs and managers highly trained and proficient in the performance of the various types of surveys required for site development and site construction. It meets the needs of its various clients on numerous projects that span the region.

Our services include:

- Bridge and Road Construction
- Machine Control
- Topographic & Mapping
- Construction Stakeout
 - Robotic, GNSS and Conventional
- Abandon Mine Lands (AML)
- Cell Towers
- As-Built





3D LASER SCANNING



3D LASER SCANNING

Since March of 2011 Allegheny Surveys has been providing 3D laser scanning (HDS) services to its clients. Using a Leica C10 ScanStation with Cyclone Software, a highly accurate scan can be made of a large project site in a fraction of the time that it would take field crews to survey it conventionally. Scans can be done in a single day, and a completely detailed topographic map of “As-Built quality” can be produced quickly and efficiently by exporting the information into AutoCAD.

Since first utilizing 3D Scan technology, Allegheny Surveys has produced high quality maps for its clients of pond certifications, gas well pads, compressor stations, coal stockpiles, roads, highwalls, construction sites, and underground mines.

The safety, speed and accuracy components of this technology make it much more attractive to many of our clients, who have had us utilize it more in the past year than we ever anticipated.

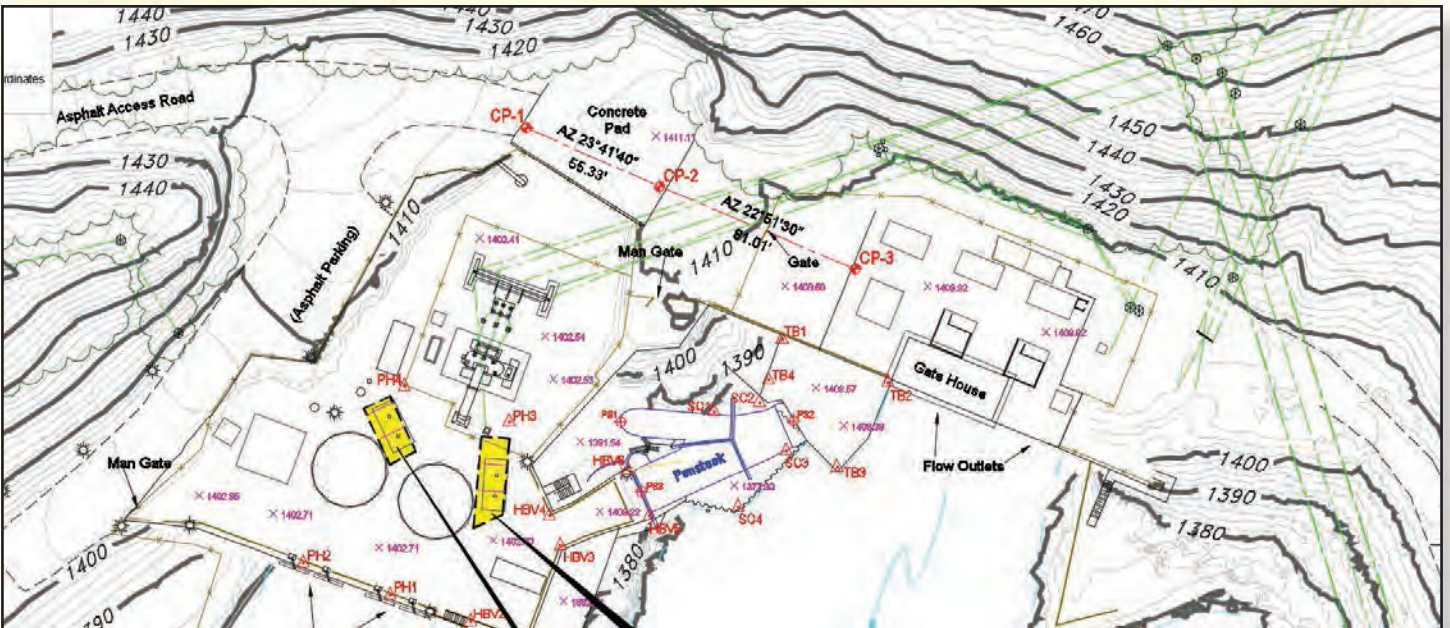




SITE SURVEY USING 3D LASER SCANNING TECHNOLOGY



Example of Point Cloud generated from 3D Laser Scanner.
(Typically one day of field work for 15 acres or less.)



Example of 2D CAD Mapping generated from Point Cloud data.



REAL ESTATE SURVEYS



REAL ESTATE SURVEYS

Allegheny Surveys works closely with timber management firms, lumber companies, realtors, corporate land owners, law firms and private landowners to meet their property location needs.

Our services include:

- Boundary Surveys
- Subdivision Surveys
- City Lot Surveys
- ALTA-ACSM Surveys
- Photogrammetric Surveys





NATURAL RESOURCE SURVEYS



NATURAL RESOURCE SURVEYS

Allegheny Surveys has maintained a strong presence in the natural resource arena since its founding. It has provided all surveying services relevant to oil, gas and coal production throughout the region. Most of its senior party chiefs and managers have high levels of experience in providing the industries with their production needs.

Our services include:

- Surface Mine Surveying
- CBM Well Surveys and Permits
- Pipeline Surveys and Mapping
- Underground Surveying and Mapping
- Shallow Well Location Surveys and Mapping
- Horizontal Well Location Surveys & Mapping





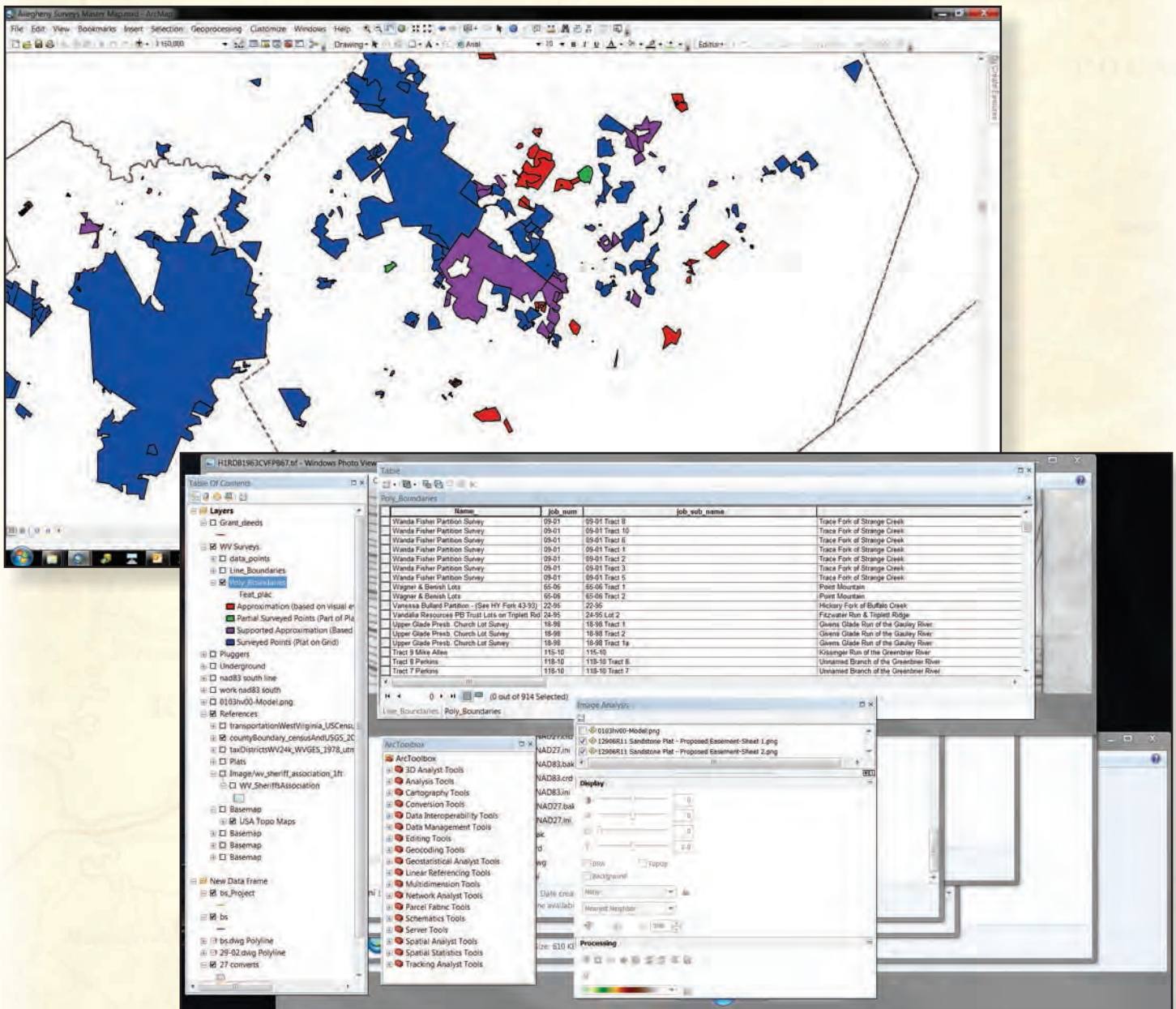
GIS SERVICES



GIS SERVICES

From data management to full scale GIS analysis we can offer multiple GIS (Geographic Information Systems) services. We utilize the power of ArcGIS, AutoCAD, and other applicable software to build and manage scalable spatial information systems. Using up-to-date

reference material such as high resolution aerial imagery, in conjunction with unequalled survey grade data, we are able to provide custom GIS solutions to our clients. These services are offered as a standalone service or they can be incorporated into our forestry and surveying services.





GPS SURVEYS



GPS SURVEYS

Allegheny Surveys has utilized Global Positioning System (GPS) technology since 1997 in the performance of numerous Static-GPS Surveys for control points, aerial photo targets, gas well location and corehole location. Allegheny Surveys has Trimble 4000ssi receivers, which have been the workhorse of its GPS Control Network Surveys over the years and are still used today for certain projects.



Allegheny Surveys purchased its first Global Navigation Satellite System (GNSS) Real Time Kinematic (RTK) system in 2007. Having recently purchased additional Trimble R8 RTK Systems, Allegheny Surveys currently utilizes Trimble R8 GNSS RTK Systems. One of these RTK Systems also has the capability to utilize the West Virginia Division of Highways (WVDOH) Virtual Reference Station (VRS) service, or Real Time Network (RTN). This technology eliminates the need for a Base receiver onsite and allows the units to work as independent Rovers on the RTN. Allegheny Surveys utilizes RTK technology in the performance of topographic, as-built, ground control, and pipeline surveys. RTK is also used for construction stakeout on various projects. Both the static-GPS and RTK data are processed using Trimble Business Center software.

In addition to the survey-grade GPS equipment listed above, Allegheny Surveys also utilizes Trimble GeoXH 6000 series handhelds with external antennas and Trimble GPS Pathfinder ProXT receivers with Nomad data collectors. All the mapping-grade GPS units have Trimble's TerraSync software installed and the GPS data are post-processed using Trimble Pathfinder Office software.



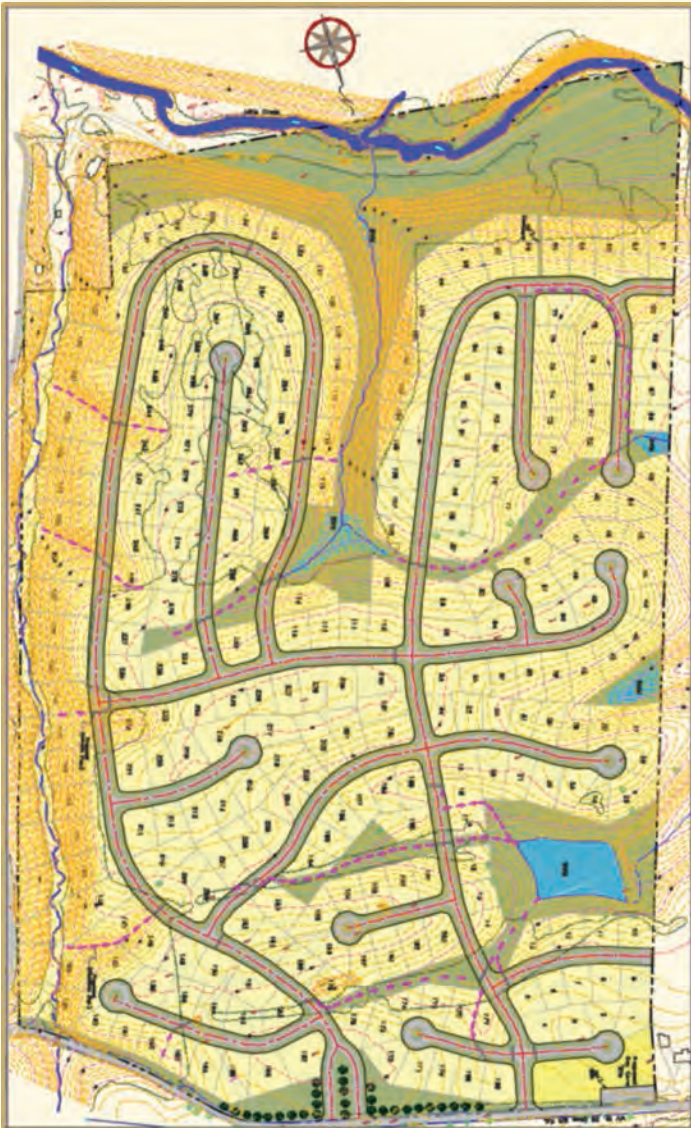
ENGINEERING SERVICES



ENGINEERING SERVICES

Allegheny Surveys, Inc.'s acquisition of Appalachian Surveys adds over **35 years of engineering and surveying experience** in the Eastern Panhandle of West Virginia to the Company's Resume.

Engineering Services: Concept Plans and Feasibility Studies, Major Subdivisions, Site Plans, House Sitings, Grading Plans, Road Design, Preliminary Plats, Storm Water Management, Drainage, Sediment and Erosion Control, Water and Sewer Design, and Permitting.



Samples of Previous Projects in the Eastern Panhandle

- Jefferson Crossing Shopping Center
- Willow Spring Farm Apartments
- Maddex Square Shopping Center
- 340 Wash and Lube
- Martins Grocery Store and Fueling Station
- Shenandoah Center Skilled Nursing and Rehabilitation Center
- Meadowbrook Subdivision
- Cress Creek Subdivision and Golf Course
- Locust Hill Subdivision and Golf Course
- Crosswinds Subdivision

Ongoing Projects in the Eastern Panhandle

- City of Ranson Sewer Main Extension
- American Public University System
- Jefferson Crossing Shopping Center



CASE STUDIES

I. Beech Ridge Wind Farm

1. Client: Invenergy, LLC
2. Location: Beech Ridge,
western Greenbrier County, West Virginia
3. Contract awarded: December 1, 2006
4. Project cost: \$303,000
5. Project Description:

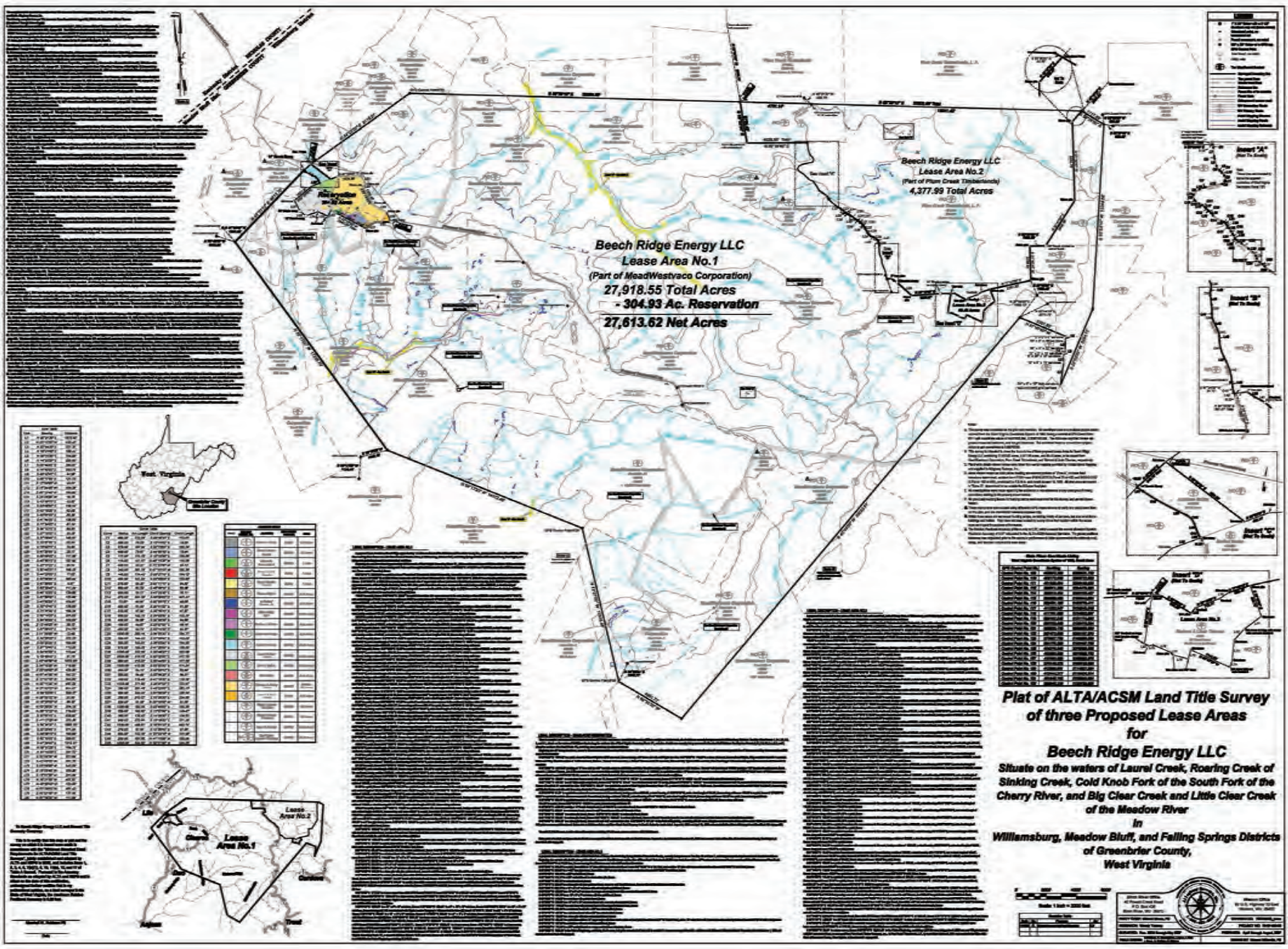
The location by survey of a 27,000 acre lease area that included the delineation of 27 miles of interior and exterior conventionally surveyed boundary lines as well as the survey of a 15 mile long power line easement. This easement was 100' in width and required the defining and certification of all boundaries that the power line crossed. It also required the staking of all powerline deflections (PI's) and the flagging of clearing limits. Both the Lease survey and the transmission line easement survey were performed as ALTA-ACSM land title surveys. This

meant that the entire survey had to be performed to rigid positional tolerances and required the location of numerous features encountered during the survey.

A GPS network of 32 control points were placed along the perimeter of the lease and along the power line easement. This network was tied to the National Geodetic Survey's High Accuracy Reference Network (HARN) using four dual-frequency survey-grade GPS receivers.

The field work commenced on this project in December of 2006, was idled from mid-January until mid-March because of heavy snow throughout the project site, and was field-completed in early May. Two crews worked on the project for a total of 3 ½ months. The ALTA plats were submitted to the client and the title insurance company for review at the end of May, and were finalized and formally submitted in July of 2007.

Example plat on next page
(Image quality reduced)



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----



Survey Office
1000 1st Street
Martinsburg, WV 26150
Phone: 304-261-1111
Fax: 304-261-1112
www.surveyoffice.com



CASE STUDIES CONTINUED

II. Powellton 45,000 acre boundary survey

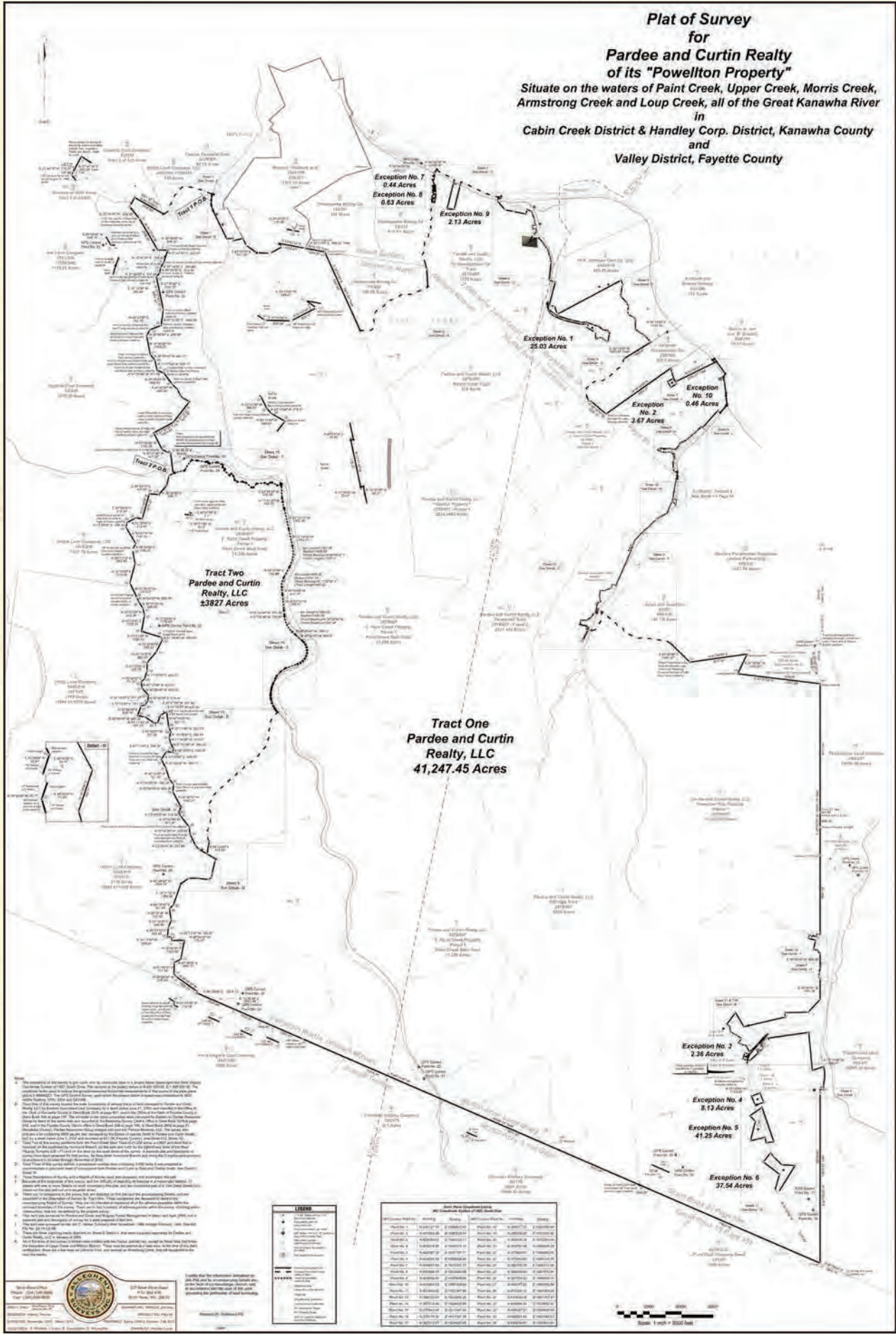
1. Client: Pardee and Curtin Realty, LLC
2. Location: Kanawha and Fayette Counties, West Virginia
3. Contract awarded: Fall, 2003
4. Project Cost: \$663,000
5. Project Description:

This survey was performed to monument, mark and paint and prepare survey documentation relevant to the boundaries of a 45,000 acre tract of fee property in some of the most rugged terrain that West Virginia has to offer. The coordinate base for this project was a project datum derived from the West Virginia Coordinate System of

1983 and tied to the National Geodetic Surveys HARN, as determined by a GPS network consisting 32 GPS control points that were observed in October of 2003. The field traverse was started the next month. The work progressed in accordance with annual budgeted allocations for the project. A survey of this magnitude required careful coordination and the ability to move people in and out of the project as needed. Specific needs of the client prompted the need to address specific areas on the boundary at different times. The project was substantially completed in 2009 with smaller issues projecting the final completion of the survey to the Spring of 2013.

Example Property Map on next page
(Image quality reduced)

**Plat of Survey
for
Pardee and Curtin Realty
of its "Powellton Property"**
 Situate on the waters of Paint Creek, Upper Creek, Morris Creek,
 Armstrong Creek and Loup Creek, all of the Great Kanawha River
 in
 Cabin Creek District & Handley Corp. District, Kanawha County
 and
 Valley District, Fayette County



1. The boundaries of this survey to give north-south, west-east, and other bearings, distances, and other data, are taken from the original survey records of the Surveyors of the State of West Virginia, and are hereby certified to be correct and true.

2. The boundaries of this survey to give north-south, west-east, and other bearings, distances, and other data, are taken from the original survey records of the Surveyors of the State of West Virginia, and are hereby certified to be correct and true.

3. The boundaries of this survey to give north-south, west-east, and other bearings, distances, and other data, are taken from the original survey records of the Surveyors of the State of West Virginia, and are hereby certified to be correct and true.

4. The boundaries of this survey to give north-south, west-east, and other bearings, distances, and other data, are taken from the original survey records of the Surveyors of the State of West Virginia, and are hereby certified to be correct and true.

5. The boundaries of this survey to give north-south, west-east, and other bearings, distances, and other data, are taken from the original survey records of the Surveyors of the State of West Virginia, and are hereby certified to be correct and true.

6. The boundaries of this survey to give north-south, west-east, and other bearings, distances, and other data, are taken from the original survey records of the Surveyors of the State of West Virginia, and are hereby certified to be correct and true.

7. The boundaries of this survey to give north-south, west-east, and other bearings, distances, and other data, are taken from the original survey records of the Surveyors of the State of West Virginia, and are hereby certified to be correct and true.

8. The boundaries of this survey to give north-south, west-east, and other bearings, distances, and other data, are taken from the original survey records of the Surveyors of the State of West Virginia, and are hereby certified to be correct and true.

9. The boundaries of this survey to give north-south, west-east, and other bearings, distances, and other data, are taken from the original survey records of the Surveyors of the State of West Virginia, and are hereby certified to be correct and true.

10. The boundaries of this survey to give north-south, west-east, and other bearings, distances, and other data, are taken from the original survey records of the Surveyors of the State of West Virginia, and are hereby certified to be correct and true.

LEGEND

- Boundary of Powellton Property
- Boundary of Exception
- Boundary of Tract
- Boundary of Creek
- Boundary of Road
- Boundary of Other

Table of Survey Data

Tract	Exception No.	Area (Acres)	Surveyor	Date
Tract One	1	25.03	...	...
	2	3.67	...	...
	3	2.35	...	...
	4	8.13	...	...
	5	41.25	...	...
	6	37.54	...	...
	7	0.44	...	...
	8	0.63	...	...
	9	2.13	...	...
	10	0.46	...	...
Tract Two		±3827	...	...





CASE STUDIES CONTINUED

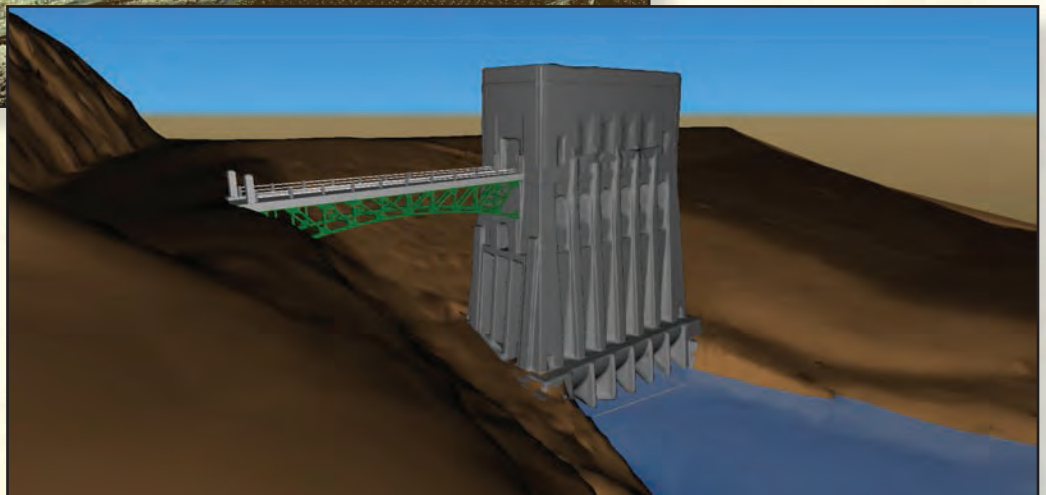
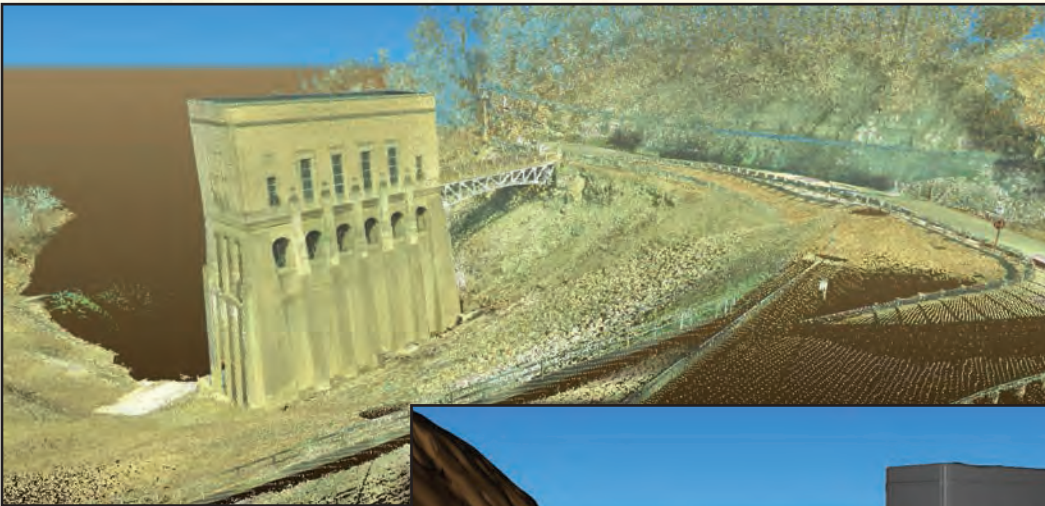
III. Mohawk Dam

1. Client: U.S. Army Corps of Engineers
2. Project Location: Mohawk Dam,
Coshocton County, Ohio
3. Contract Awarded: February 2013
4. Project Description:

This project consisted of performing a 110 acre site survey for the U.S. Army Corps of Engineers of the Mohawk Dam located along Route 715 on the Walhonding River in Coshocton County, Ohio. The project area included a large land dam (2,500 feet in length), concrete inlet and

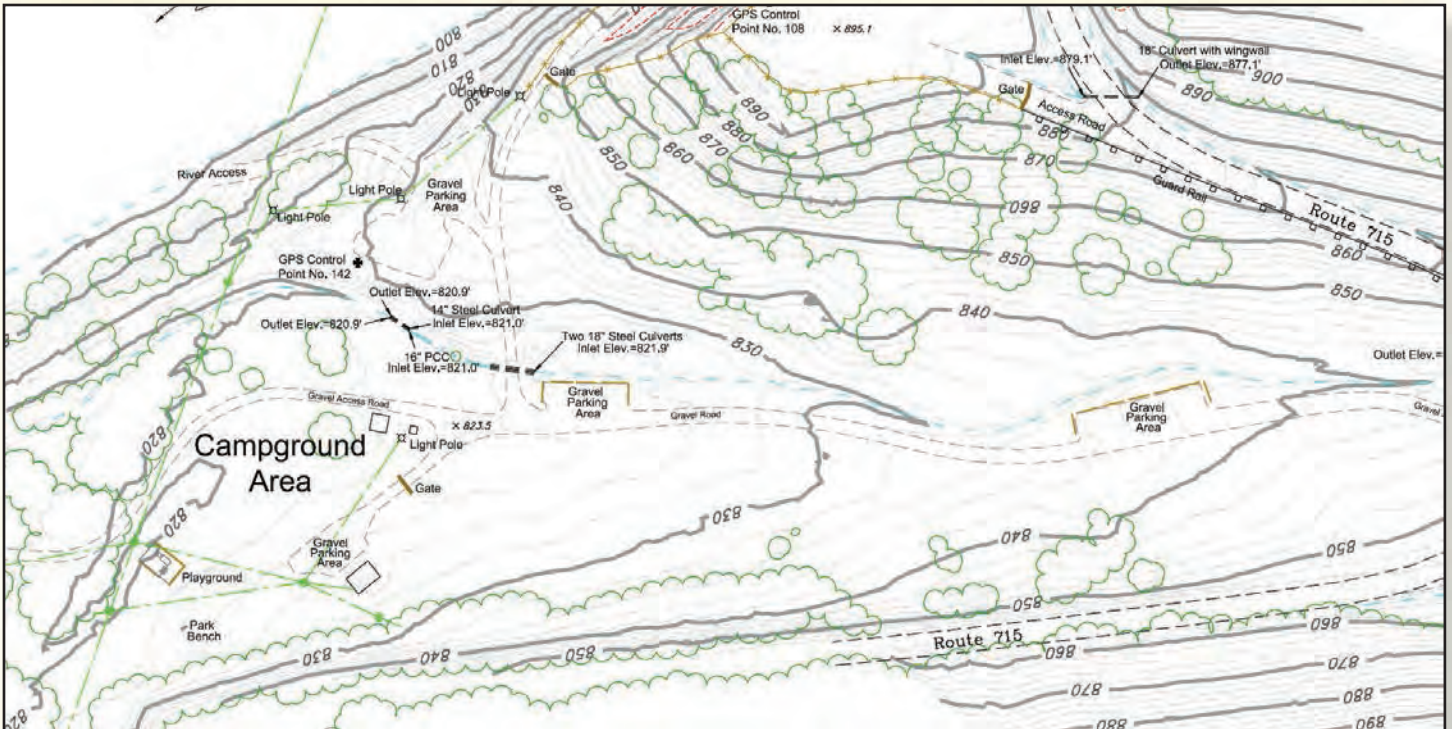
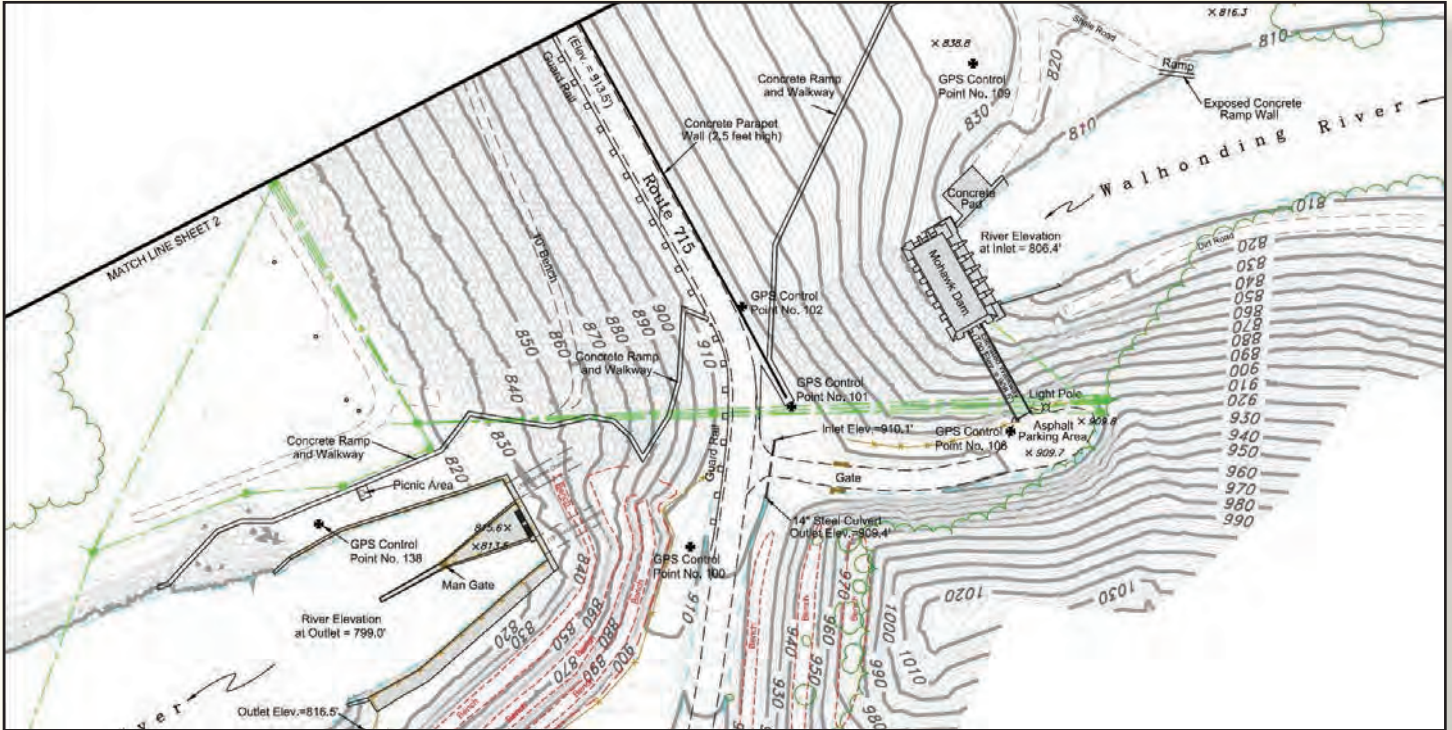
outlet structures, an 18 acre spillway, campground site, house, and storage buildings. The entire site was located by using a Leica C10 ScanStation 3D Laser Scanner. Almost 90 million points were collected during the survey.

75 Control Monuments were used to register the scan data, and 65 setups were needed to scan the entire 110 acre site. The field work began on February 27, 2013, and the project was delivered on March 19th. From start to finish, this project was awarded, surveyed, processed, mapped, and delivered in a total time frame of one month. To do this was quite an accomplishment, and is a testimony to how state-of-the-art technology and hard work can achieve results that are appreciated by our client.





CASE STUDIES CONTINUED





CASE STUDIES CONTINUED

IV. Antero

1. Client: Antero Resources Corporation
2. Project Location: North Central West Virginia to Southeastern Ohio
3. Contract Awarded: January 2009
4. Project Description:

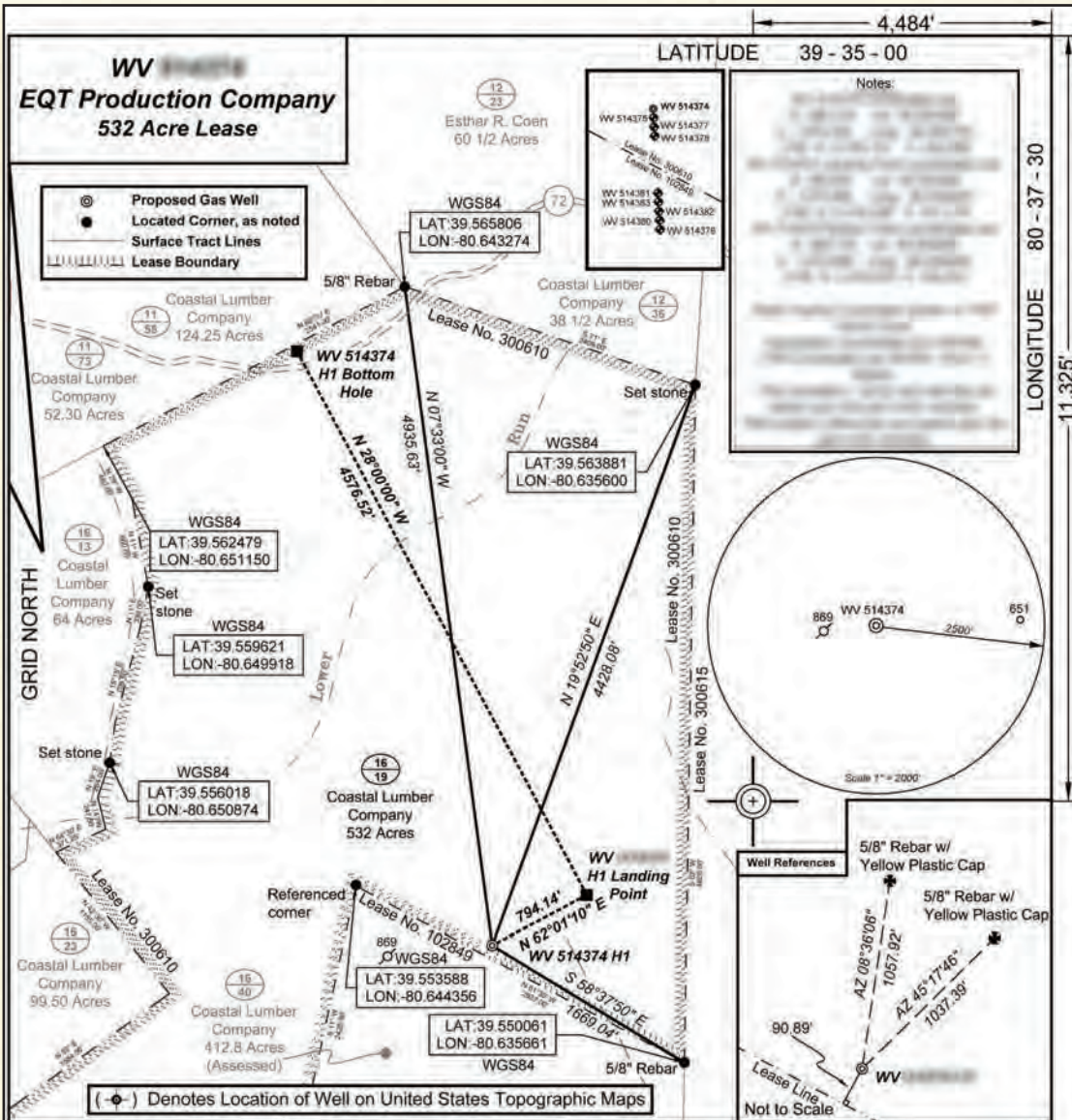
This contract started in January 2009 which consisted of survey and mapping for proposed drill pad & frac pit locations, preparation of proposed horizontal well permit packages and the mapping of preconstruction and asbuilt pipeline surveys for Antero's gathering system. Since 2009 we have surveyed and mapped approximately 230 horizontal well permit packages located in Harrison, Doddridge, Tyler and Ritchie Counties and approximately 150 miles of gathering pipelines.

In January 2012 we started offering engineering services for the construction of drill pad & freshwater impoundments through our sister company, Hornor Brothers Engineers, and our sub-consultants, L & W Enterprises. Over the past year and a half we have aided in the design of 100 pad/impoundment sites in North Central West Virginia and recently in Southeastern Ohio.

V. EQT

1. Client: EQT Production & EQT Midstream and Equitrans
2. Location: Northeastern West Virginia & Southwest Pennsylvania
3. Contract awarded: 2003
4. Project Description:

In 2003, Allegheny Surveys began locating and mapping hundreds of miles of existing pipeline for EQT Midstream and Equitrans to incorporate legacy networks into EQT's database. It also performed pre-construction pipeline surveying and mapping on various lines in Northern West Virginia. In 2007, Allegheny Surveys began preparatory well "plugging" and well re-completion packages for EQT Production as well as roads and stream crossing permits. Shallow well permit packages soon followed, and in 2010 Allegheny Surveys began preparing Horizontal Well Permit packages for EQT in Wetzel County, WV. This past year, its volume of work for EQT was expanded, and it currently provides more surveying and mapping services related to Marcellus development in West Virginia than any other surveying or engineering firm.



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.



FILE NO: _____
DRAWING NO: _____
SCALE: _____
MINIMUM DEGREE OF ACCURACY: _____
PROVEN SOURCE OF ELEVATION: _____

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: _____ 20____
OPERATOR'S WELL NO. WV _____
API WELL NO _____
STATE _____ COUNTY _____ PERMIT _____

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: _____ WATERSHED _____ QUADRANGLE: _____
DISTRICT: _____ COUNTY: _____
SURFACE OWNER: _____ ACREAGE: _____
ROYALTY OWNER: _____ LEASE NO: _____ ACREAGE: _____
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: _____ ESTIMATED DEPTH: _____

WELL OPERATOR: _____ DESIGNATED AGENT: _____
ADDRESS: _____ ADDRESS: _____

PUL 24 DRILL PAD PRELIMINARY SITE DESIGN EQT PRODUCTION COMPANY



All topographic information shown herein is based on aerial photography provided by Blue Mountain Aerial Mapping with a flight date of Spring 2011



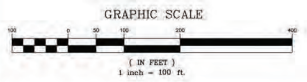
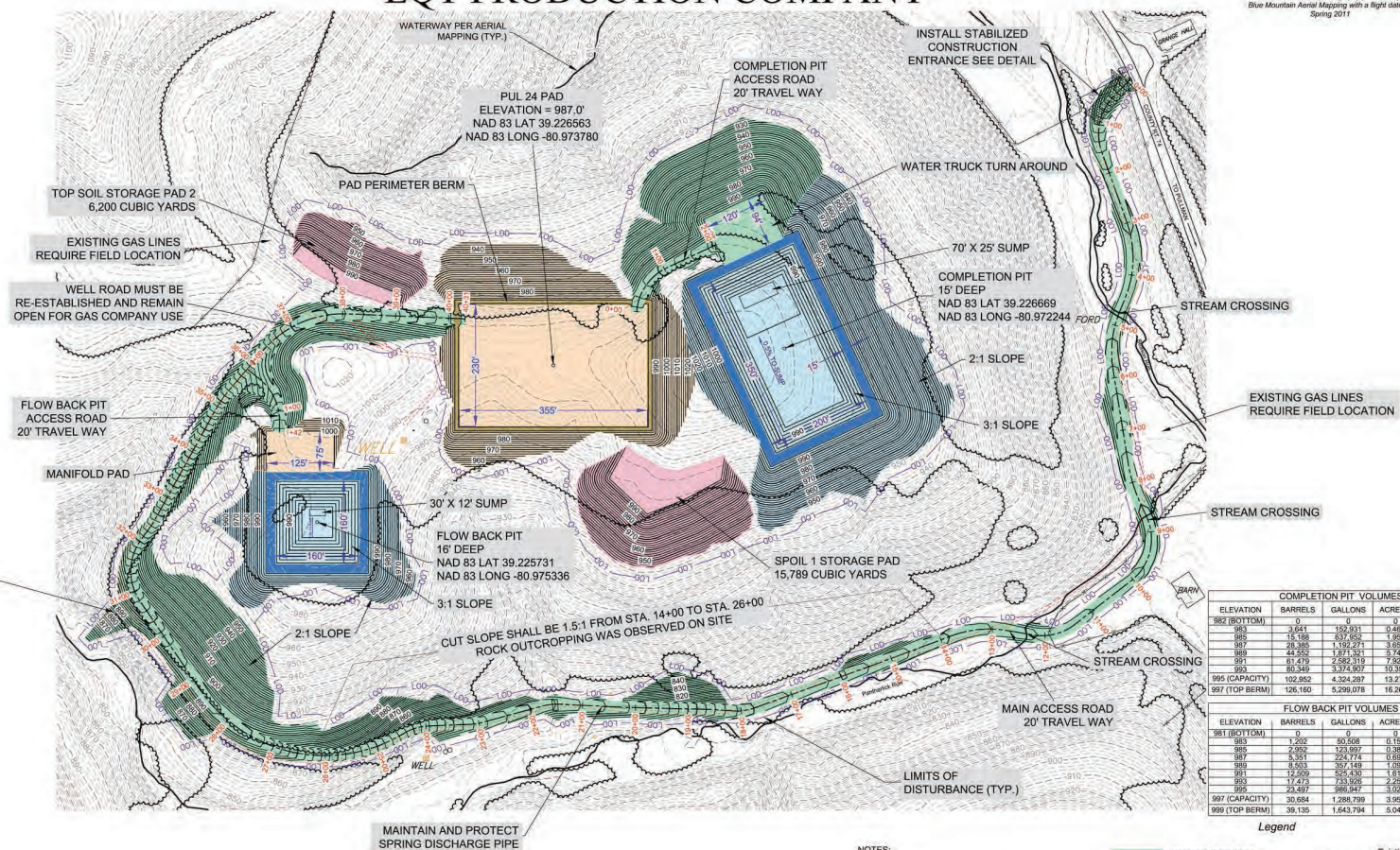
Allegheny Surveys, Inc.
1772 Thompson Drive
Bridgeport, WV 26330
(304) 845-5035

Horner Stone Bros. Engineers
1606 State Street
Civil, Consulting, Engineering and
140 South West Street, First Floor, Box 160
Clemens, West Virginia, 26031 (304) 234-1400

THIS DOCUMENT PREPARED FOR EQT PRODUCTION COMPANY

PRELIMINARY SITE DESIGN
**PUL 24
DRILL PAD SITE**
CLAY DISTRICT
RITCHIE COUNTY, WV

Date: 2-22-2013
Scale: 1"=100'
Designed by: JDR
File No.: 2011-01-0000-0001
Page: 1 of 2



DESCRIPTION	AREA (ACRES)
MAIN ACCESS ROAD	2.27
DRILL PAD	4.04
COMPLETION PIT ACCESS ROAD/TURNAROUND	2.21
COMPLETION PIT	5.08
FLOW BACK PIT ACCESS ROAD	0.28
FLOW BACK PIT	2.08
MANIFOLD PAD	0.46
SPOIL PADS	2.63
TOTAL	23.04
TOTAL WOODED AREA	6.87

DESCRIPTION	CUT (CY)	FILL (CY)	NET (CY)
MAIN ACCESS ROAD	24,429	4,917	19,512
DRILL PAD	36,349	174,100	137,751
FLOW BACK PIT	3,687	13,849	-10,162
FLOW BACK PIT ACCESS ROAD	6,159	15	6,144
COMPLETION PIT	83,848	48,534	35,314
COMPLETION PIT ACCESS ROAD	64	37,598	-37,534
MANIFOLD PAD	1,982	858	1,124
SPOIL PADS	0	11,569	-11,569
TOTAL	136,828	136,923	-95

- NOTES:
- SITE NOT WITHIN THE 100 YEAR FLOOD PER FIRM PANEL 5498C0205C
 - ALL PROPOSED SLOPES TO BE 2:1 EXCEPT WHERE NOTED.
 - NO WETLANDS OR STREAM DELINEATIONS WERE AVAILABLE AS OF THE DATE SHOWN.
 - LEASE LINE AND WELL ORIENTATION PROVIDED BY ASH SURFACE OWNER AND LEASE HOLD OWNERS INFORMATION WERE NOT AVAILABLE AS OF THE DATE SHOWN.

Legend

- Proposed Road Area
- Proposed Drill Pad Area
- Proposed Impoundment Area or Manifold Pad
- Proposed Spoil Area
- Existing 2' Contour
- Existing 10' Contour
- Existing Tree Line
- Existing Utility Pole
- Existing Overhead Utility
- Existing Gas Line CL
- Existing Water Line CL
- Proposed 2' Contour
- Proposed 10' Contour

DATE	REVISIONS

ALL WOOD WASTE SHALL BE USED AS A SEDIMENT BARRIER, CHIPPED, LEGALLY HAULED OFF, OR LEGALLY BURNED ON SITE



CASE STUDIES CONTINUED

VI. US Army Corps of Engineers (USACE) – Great Lakes and Ohio River Division

1. Client: USACE
2. Project Location: Huntington District
3. Contract Awarded: March 2012
4. Project Cost: Not to exceed \$2,500,000
5. Project Description:

Surveying and Engineering services which include horizontal and vertical control surveys, geodetic surveys, High Definition Scanning (HDS) surveys, real property surveys of Government-owned land tracts, such as levees, reservoirs, or dredge disposal areas, structural deformation studies, construction layout surveys, land surveys, surface mine and underground mine surveys, route surveys, quantity surveys, hydrographic surveys and Hazardous and Toxic Radioactive Waste (HTRW) surveys. The project also includes establishing or re-establishing corners, monuments and boundary lines, or for the purpose of describing fixed improvements, or platting or dividing parcels. These projects are being performed as necessary to support engineering studies to include design and construction, planning, operation and maintenance of navigation and flood control projects, real estate and emergency management activities.

- 1) **Deformation monitoring capabilities utilizing least squares adjustments to analyze survey measurements for accuracy and monitor movement of large structures.**
- 2) **Cadastral surveying capabilities to reestablish, monument and sub-divide parcels, easements and right-of- ways in accordance with state and local requirements.**

- 3) **Geodetic surveying utilizing least squares adjustments to establish horizontal and vertical control for various surveying projects.**
- 4) **Topographic surveying capabilities using real time GNSS, VRS GNSS surveys and conventional surveying techniques.**
- 5) **GNSS capabilities for geodetic, topographic and GIS data collection.**
- 6) **Hydrographic surveying capabilities using differential GPS, acoustic and conventional survey techniques.**
- 7) **Ability to collect digital data for planimetric and topographic features, DTM, DEM, data collection, a break down of the firm's field to finish process, and manipulation of terrain data.**
- 8) **GIS-data development and system design compatible with the National Spatial Data Transfer Standards (SDTS).**
- 9) **Surface and Underground Mining Certifications and Experience in West Virginia, Kentucky, Ohio and Virginia.**
- 10) **3-D Terrestrial Scanning.**
- 11) **HTRW capabilities to perform level B through level D HTRW surveys.**
- 12) **Route surveys.**
- 13) **Construction Surveys.**
- 14) **Documentation of geospatial and metadata contract deliverables that complies with the FGDC-STD-001-1998 Content Standard for Digital Geospatial Metadata. B.**



CASE STUDIES CONTINUED

VII. Tri-State Airport Runway Extension, near Kenova, West Virginia

1. Client: The LPA Group
for Tri-State Airport Authority
2. Project location: Ceredo, West Virginia,
in the central, far-western part of the state.
3. Contract Awarded: August, 2005
4. Project Cost: \$40,000
5. Project Description:

This project is a topographic ground survey of 117 acres at the end of an existing runway to accommodate the design of an extension of the primary runway at Tri-State Airport. It was conducted to very rigid vertical and horizontal tolerances. The terrain was extremely rugged and the brush and vegetation caused the survey to be extremely labor intensive. The survey included a detailed site survey of the end of the runway area within the airport security fence. The project required a fulltime field crew nearly every day from November, 2005 through February, 2006.

Example plat on next page
(Image quality reduced)

**Map of Topographic Survey
for
The LPA Group Incorporated**

**Tri-State Airport
Runway 12 Extension and Safety Overrun**

Huntington, West Virginia

SYMBOLS	
(Red line)	PROPERTY LINE
(Green line)	CONTOUR
(Blue line)	WATER
(Black line)	ROAD
(Black line)	RAILROAD
(Black line)	UTILITY
(Black line)	BOUNDARY
(Black line)	ENCLOSURE
(Black line)	WALL
(Black line)	POST
(Black line)	TRAIL
(Black line)	DIKE
(Black line)	WINDMILL
(Black line)	WELL
(Black line)	SPRING
(Black line)	SHED
(Black line)	HOUSE
(Black line)	CHURCH
(Black line)	SCHOOL
(Black line)	OFFICE
(Black line)	FACTORY
(Black line)	STATION
(Black line)	LANDMARK
(Black line)	OBSTACLE
(Black line)	OBSTRUCTION
(Black line)	OBSCURE
(Black line)	UNIDENTIFIED

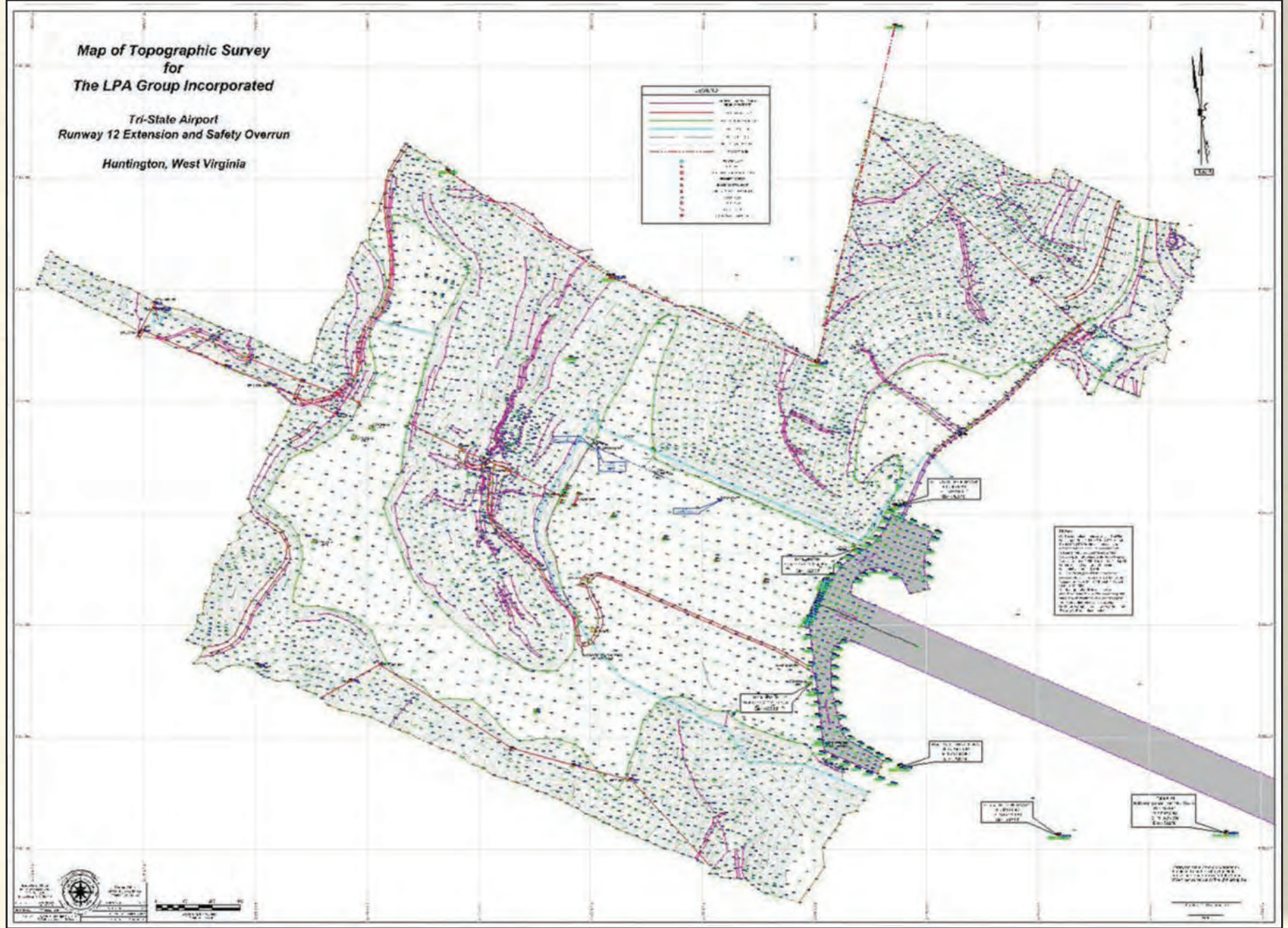


Scale
1" = 1000'
1" = 1000'
1" = 1000'
1" = 1000'
1" = 1000'
1" = 1000'
1" = 1000'
1" = 1000'

1" = 1000'

1" = 1000'

1" = 1000'





CASE STUDIES CONTINUED

VIII. Garden Ground Highwalls

1. Client: Eastern Arrow Corporation
2. Project Location: Summit Bechtel Reserve, Mt. Hope, West Virginia
3. Contract Awarded: August 2010
4. Project Description:

This project consisted of surveying and mapping services to facilitate the reclamation of approximately 36,000 lineal feet of abandoned highwalls on four sites located at the Summit Bechtel Reserve in Fayette County, WV. The project began by flagging the clearing limits of the project areas for clearing. Once the project areas were cleared, horizontal and vertical control was established for the project. A topographic survey was performed of roughly 147 acres to map the existing ground as a base for volume calculations and to prepare cross-sections to compare to the construction plans. Allegheny Surveys, Inc. also provided construction stakeout throughout the project. Once construction was completed, an as-built survey of the final grade was performed. In addition to the field work performed on this project, cross-sections, as-built site plans, volume calculations and site details were prepared for this project. This project was completed in July 2011.

IX. EarthMark WV Mitigation, LLC Conservation Surveys

1. Client: EarthMark WV Mitigation, LLC
2. Project Location: Raleigh, Jackson and Wayne Counties, West Virginia
3. Contract Awarded: 2007 and 2009
4. Project Cost: \$72,100
5. Project Description:

Davis Branch, Raleigh County - Topographic and easement survey for stream restoration and stream preservation. The stream restoration area consisted of 16 acres and the stream preservation area consisted of 12,500 feet of stream channel. The project site included Davis Branch and tributaries thereof.

Mud Run, Jackson County - Boundary survey to establish a 25 acre Conservation Easement along Mud Run in Jackson County, WV. The boundaries of several adjoining tracts had to be identified during the course of this survey. Right-of-way limits of roads and utilities also affected the limits of this survey.

Trace Fork, Wayne County - Topographic survey of 8.5 acres affected by the project. A boundary survey was also performed and Easements established across 5 separate tracts of land. The easements for this project ranged from less than an acre to 2.5 acres.



CHIEF PERSONNEL

Marshall W. Robinson, PS
Licensed in WV, VA, KY, OH & PA

President and Chief Executive Officer

Ben R. Singleton, PS

**Vice President and
Senior Survey Manager**

Birch River Office

Dwayne D. Matheny, PS
Licensed in WV & KY

Chief Operations Officer

Bridgeport Office

David W. King, PS

Senior Survey Manager

Alum Creek Office

Bradley D. Miller, PS
Licensed in WV & PA

Survey Manager

Bridgeport Office

Karen K. Brill, PS

Operations Manager

Ranson Office

Lisa McCauley, PE

Engineering Manager

Ranson Office

Dwayne A. Hall, PS

Underground Survey Manager

Birch River Office

Stacey O. Brown, PS
Licensed in WV & KY

Mapping Manager

Birch River Office

Damon L. Wilkewitz, PS

HDS Manager

Birch River Office

William D. Yetzer, PS, EI
Licensed in WV, CO & UT

Survey Manager

Bridgeport Office

Kenneth L. Plum, PS

Survey Manager

Bridgeport Office

Mary Ann Kiser, PHR

**Human Resource &
Safety Manager**

Birch River Office

Jason P. Gravley

IT Manager & GIS Analyst

Birch River Office

Teresa A. Hughart, CPA

Chief Financial Officer

Birch River Office

Drema Dodrill

Corporate Administrator

Birch River Office



MARSHALL W. ROBINSON, PS

President and Chief Executive Officer



Marshall is proficient in all types of surveying, including surface and underground mine surveying, construction surveying, boundary surveying, GPS surveying, oil and gas well location surveying, and specializing in expert witness testimony for boundary litigation, GPS survey design and analysis, and underground surveying and mapping.

Former Chapter Representative, Board of Examiner's Liaison, Member of the Board of Directors, West Virginia Representative to the NSPS Board of Governors, and President, of the West Virginia Association of Land Surveyors, between 1991 and 1999. He also served on the Legislative Committee, Peer Review Committee, HARN Committee, and Education Committee. He is currently President-elect and, will take office as President in February, 2014.

- Member of the Advisory Board to the Glenville State College Division of Land Resources for the Land Surveying Program. He has been Chairman of that Board from 2005 to the present.
- Former member of the NCEES (National Council of Examiners of Engineers and Surveyors) EPS (Examination for Professional Surveyors) Committee.
- Has presented numerous seminars on boundary law issues and boundary resolution, right-of-way and easement issues, GPS and GIS applications to the surveying profession, State Plane Coordinates, Project Datums, and underground surveying and mapping.
- Former member of the West Virginia Board of Professional Surveyors, serving two three-year terms, from 2000 to 2006.
- Graduated magna cum laude from Glenville State College with an Associate's Degree in Land Surveying and a Bachelor of Arts Degree in May of 1985.
- Licensed in the State of West Virginia as a Professional Surveyor since February 1988. Also licensed as a Professional Surveyor in Virginia (January, 2005), Kentucky (February, 2005) Ohio (June, 2005) and Pennsylvania. (July, 2009).



BEN R. SINGLETON, PS

Vice President and Senior Survey Manager, Birch River Office



Proficient in all types of surveying, and specializing in boundary, underground, oil and gas well locations, site development, and GPS surveys. Ben was the lead party chief in the performance of a 27,000 acre boundary survey in Nicholas and Webster Counties that was completed in 2004. He was also the lead party chief in the performance of a 12,000 acre boundary survey in Nicholas County, a 4,000 acre boundary survey in Braxton County, a 3,200 acre boundary survey in Kanawha County, and an 1,850 acre boundary survey in Clay and Nicholas Counties.

He has surveyed over 100 well location sites on a 70,000 acre tract in Clay County, and has surveyed for coal bed methane (CBM) wells, shallow well and deep well permits throughout West Virginia. Overall, he has surveyed hundreds of well locations throughout the state. He has surveyed several deep mines throughout the state, and has performed numerous GPS control surveys for boundary control and aerial mapping. In the past three years he has performed or supervised the performance of numerous cell tower site surveys throughout Virginia and West Virginia.

- Graduated from Glenville State College with an Associate's Degree in Land Surveying in May 1996.
- Employed by Allegheny Surveys as a full time party chief since May 1996.
- Promoted to Senior Survey Manager in September 2002.
- Licensed in the state of West Virginia as a Professional Surveyor since January 2004.

DWAYNE D. MATHENY, PS

Chief Operations Officer, Bridgeport Office



Dwayne has performed many types of surveys which include, but are not limited to, ALTA/ACSM surveys, Pre-Mine and Post-Mine subsidence surveys, design surveys for engineering support, boundary surveys, gas pipeline as-builts and design surveys, telecommunication surveys, GPS networks, and construction layout.

The majority of his experience has been in the construction industry where he performed and supervised projects for bridges, commercial buildings, roads, railroads, gas compressor stations, water and wastewater treatment plants, sanitary sewer systems, water systems and athletic fields.

- Began surveying in 1994 with the largest engineering firm in the State of West Virginia, performing and supervising surveys for all types of industries.
- Obtained his license in 2003 after completing the mandatory eight years of field experience.
- Employed by Allegheny Surveys, Inc since May, 2008.
- Licensed in the state of Kentucky.



DAVID W. KING, PS

Senior Survey Manager, Alum Creek Office



Began his surveying career in 1990 and has worked for three previous surveying firms, one underground mining company, and one surface mining company. From 1998 to 2003, he worked closely with the owner of this firm, Marshall Robinson, who, while owning Allegheny Surveys, was also a partner with another surveyor in the firm of Augusta Land Consultants, a surveying firm located in Danville, WV. Together they solved the boundaries on numerous difficult surveys on large timber and coal tracts, including one 25,000 acre boundary survey and a 7,000 acre boundary survey. He also gained a fair amount of well location experience while working for Augusta Land Consultants. In 2004 he founded Frontier Surveys in Danville, WV, which he operated for a few years thereafter as a city lot and rural boundary surveying firm, performing a variety of surveys for private landowners, until he gained employment in the coal industry, performing all types of surveys relevant to deep and surface mine operations.

Proficient in the performance of ALTA/ACSM surveys, boundary surveys, design surveys for engineering support, construction layout, underground mine surveys, surface mine surveys, topographic surveys, GPS networks, control surveys, and gas well surveys. The majority of his experience has been in the performance of all types of boundary surveys throughout southern West Virginia.

- Obtained surveying license in 2000 after completing the mandatory eight years of experience.
- Employed by Allegheny Surveys as Senior Survey Manager in January 2009.
- Founded Frontier Surveys of Danville, WV in 2004.

BRADLEY D. MILLER, PS

Senior Survey Manager, Bridgeport Office



Graduated from West Virginia University with a Bachelor's in Science Degree in Business Management-Human Resources in December 1994. He also attended Potomac State College of West Virginia University where he received an Associates of Arts Degree where he studied Business and Economics in May 1992. He has over 16 years of surveying experience. Employed by Allegheny Surveys since August of 2012.

Brad is responsible in the management and performance of cell tower site surveys, topographic surveys and construction stake-outs, and as-built and pre-construction pipeline surveys. He is also responsible for managing the processing of survey data and map preparation to facilitate the work products relevant to the above types of surveying.

Brad is licensed in West Virginia and Pennsylvania.



KAREN BRILL, PS

Operations Manager, Ranson Office



Karen Brill has over thirty years of broad and varied experience in surveying and project management. Karen obtained her license in the state of West Virginia as a Professional Surveyor in 1991. Her experience includes working as rod-person, rear and head chain-person, instrument operator, and party chief. Experienced in difficult boundary retracements, city lot surveying, subdivisions, site plans, control surveys, topographic mapping, and ALTA Land Title Surveys. Ms. Brill has served as an expert witness for the US Attorney's Office and the Jefferson County Prosecuting Attorney. Ms. Brill was designated "Surveyor of the Year" in 2006 by the West Virginia Society of Professional Surveyors.

LISA MCCAULEY, PE

Engineering Manager, Ranson Office



Ms. McCauley currently serves as the Engineering Manager for the Ranson, WV office of Allegheny Surveys, Inc. Her 28 years of experience in both West Virginia and Virginia includes all aspects of engineering design, public representation, and management for residential, commercial, and industrial site plans and construction plans. Lisa graduated from Bucknell University in 1986 with a Bachelor's degree in Civil Engineering. She is a registered Professional Engineer in West Virginia, Virginia, Maryland, Ohio and Pennsylvania.



DWAYNE A. HALL, PS

Underground Survey Manager, Birch River Office



Adept in the performance of underground surveys, boundary surveys, site location and development surveys, well location surveys and GPS ground-control surveys. Dwayne has been the lead party chief on several boundary surveys in Webster County that are greater than 1,000 acres in size.

Dwayne serves as Allegheny Survey's lead underground survey manager in several deep mines throughout the state.

- Graduated from Glenville State College in May of 1999 with an Associate's Degree in Land Surveying and an Associate's Degree in Forestry.
- Employed by Allegheny Surveys as a summer intern in 1997 and became full-time in 1999.
- Licensed as a Professional Surveyor in the State of West Virginia since January 2004.
- Licensed as an Underground Surveyor having received his SU endorsement in June of 2009.

STACEY O. BROWN, PS

Mapping Manager, Birch River Office



Stacey is proficient in CAD and survey calculations relating to boundary surveys, underground mine mapping, construction layout, volumes and subdivisions.

In September of 2002 he was promoted to party chief and Senior GPS Surveyor, with the responsibility for designing, managing and generating the final data for all GPS surveys performed by the firm.

Stacey was the lead party chief in the performance of an 11,000 acre boundary survey in Webster County completed in March of 2007. He has also performed various boundary and topographic surveys in addition to drill hole and aerial photo control surveys throughout West Virginia. His proficiency in computer and software operations is enormous. With Ben Singleton's help, he performs all of the field crew scheduling in the Birch River office.

- Graduated from West Virginia Institute of Technology in May of 1993 with an Associate Degree in Drafting Design and Engineering Technology.
- Employed by Allegheny Surveys since January 2001.
- Extensive experience, having been exposed to the surveying profession since 1993.
- Licensed by the State of West Virginia as a Professional Surveyor in June of 2009.
- Licensed by the State of Kentucky as a Land Surveyor in 2013.



DAMON L. WILKEWITZ, PS

HDS Manager, Birch River Office



Damon graduated from Glenville State College with an Associate's Degree in Land Surveying in May of 1992. Employed by Allegheny Surveys since January 2006, he has worked for four previous surveying firms in central West Virginia, and was licensed by the state of West Virginia as a Professional Surveyor in June of 2005.

Damon has over 20 years of experience in boundary surveys, construction layout, and site development surveys. He also has extensive experience in CAD operations, and is proficient in several survey software applications.

Since March 2011, Damon has been managing the work with ASI's 3D laser scanning (High Definition Surveying). He has given seminars at the Hexagon Conference and the WV Surveyors convention for ASI's work with Forensic and Natural Resource laser scanning projects, including underground coal mine modeling. He is completing over 50 HDS projects per year for the natural resource and construction industries.

WILLIAM G. YETZER, PS, EI

Survey Manager, Bridgeport Office



Bill has 22 years of experience in the surveying profession, in which his primary focus has been land development, ALTA/ACSM surveys, engineering design surveys, and boundary surveys. From 2001 – 2009, he has been employed as a Senior Survey Manager in firms that require the management of 3 or more crews and the direction of all field and other operations.

- Graduated from the University of Minnesota with a Bachelor of Science Degree in Civil Engineering in December 1994, with an emphasis on surveying and environmental issues.
- Graduated from Dunwoody Industrial Institute with an AA Degree in Civil Engineering Technology in June 1990.
- Employed by Allegheny Surveys in April of 2009 as a Senior Party Chief in the Bridgeport Office.

- Licensed by the State of Colorado as Professional Surveyor in 2000.
- Licensed by the State of Utah as a Professional Surveyor in 2007.
- Licensed by the State of West Virginia as a Professional Surveyor in 2010.
- Certified by the State of Colorado as an Engineer in Training in 2006.



KENNETH J. PLUM, PS

Survey Manager, Bridgeport Office



Began his surveying career in 1991 and has worked for three previous engineering firms in the states of West Virginia and Pennsylvania. From 1991 to 1998, the majority of his experience was with deep and surface coal mine surveys and services for central and southern coal companies of West Virginia. From 1999 to 2008, the majority of his experience was with right of way acquisition and roadway re-establishment surveys for the PennDOT, Penna Turn-Pike, and PAT of Allegheny County. From 2008 to 2010, the majority of his experience was with water and storm and sanitary sewer surveys for north central West Virginia communities.

He has performed many types of surveys which include, but are not limited to, deep and surface mine production and control surveys, design surveys for engineering support, boundary surveys, ALTA/ACSM surveys, gas well plat, as-built, and design surveys, GPS topographic, stake out, and control surveys, and highway and commercial building construction layout.

He obtained his West Virginia license in 2010 after completing the mandatory years of experience.

He was employed by Allegheny Surveys, Inc. in June, 2010 as a Senior Party Chief for the Bridgeport Office.

MARY ANN KISER, PHR

Human Resource and Safety Manager, Birch River Office



Mary Ann is responsible for overseeing the organization's Human Resource programs and policies as they apply to employee relations, development, compensation, benefits, performance, and staffing levels. She is an analyst and administrator of the Predictive Index System, a behavior assessment tool used for maximizing organizational performance and productivity. She is also responsible for the design and implementation of company policies, including Safety and Drug-Free Workplace policies. She has completed the PEC Safeland and OSHA 510 courses. She is also an authorized trainer of the 10 and 30 hour safety courses for the construction industry.



JASON P. GRAVLEY

IT Manager & GIS Analyst, Birch River Office



Graduated from Concord University in Athens, West Virginia with a Bachelor's of Art Degree in Geography with an emphasis in GIS and Cartography in 2009. Jason was awarded Concord University's 2009-2010 Outstanding Scholar in Geography and the NCGE/AAG 2010 Excellence Scholarship Award in Geography. He also attended Marshall University where he studied Geography/Meteorology from May 2005 - May 2008. He has over 5 years of GIS experience. Employed by Allegheny Surveys since April of 2011.

Jason is responsible for implementing, monitoring, and maintaining the company's geodatabase. He is also responsible for providing GIS services to the U.S. Army Corp of Engineers by utilizing data collected by the firm and/or provided by the USARCE. He is proficient with ESRI software as well as AutoCAD. He performs a variety of tasks for the company that range from geodatabase work and analysis to drawings and other tasks that are relevant to the firm's activities.

TERESA A. HUGHART, CPA

Chief Financial Officer, Birch River Office



Terri is responsible for the oversight and management of all financial matters, including financial reporting, taxation, internal controls and budgeting for Allegheny Surveys.

Prior to joining Allegheny Surveys, Terri worked for nineteen years in various industries gaining experience in auditing, accounts payable, budgeting and forecasting, capital asset management and project analysis. Her experience includes three years for state government where she used her accounting knowledge to train and support the finance offices of local boards of education and fifteen years in the manufacturing industry where she served in numerous financial capacities.

She passed the Certified Public Accountant exam in 1995 and obtained her CPA license in 1998 after satisfying the minimum experience requirements.

- Graduated with High Honors from Guilford College in Greensboro, NC, earning a Bachelor of Science Degree, with a major in Accounting and a minor in Management in 1992.
- Licensed in the State of West Virginia as a Certified Public Accountant since 1998.
- Employed for nearly 15 years in various accounting and finance positions for an OSB manufacturing facility in central West Virginia, the latest position being Financial Analyst.
- Employed by Allegheny Surveys as Financial Manager in January of 2011.

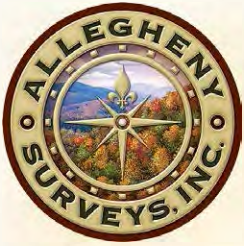


DREMA DODRILL

Corporate Administrator, Birch River Office



Drema brings to Allegheeny Surveys a successful history as a community leader in Birch River. She began her employment with Allegheeny Surveys in January 2007 as administrative assistant. She is the secretary of the Board of Directors and was recently elected to a second term. She was promoted to the position of Corporate Administrator in 2013. Drema is responsible for the company payroll and oversees various projects for the company.



EQUIPMENT & SOFTWARE

Equipment

- Trimble S6 2 DR Plus Robotic Total Station
- Trimble R8 GNSS Base and Rover RTK GPS System (six)
- Trimble R8 GNSS/VRS Base and Rover RTK GPS System
- Trimble R8 GNSS Base and Trimble R10 GNSS Rover RTK GPS Systems (three)
- Trimble S6 (two)
- Trimble 4000 SSI Static Dual Frequency GPS Receiver (four)
- Trimble 6000 GeoXH Handheld GNSS Unit with External Tornado Antenna (three)
- Trimble GeoXH mapping grade GPS Receiver (two)
- Trimble ProXT mapping grade GPS Receiver with Nomad Data Collector (three)
- Nikon Nivo 2M Total Stations (six)
- Nikon Nivo 5M Total Stations (two)
- Leica 403 Total Station (two)
- Leica 305 Total Station
- Topcon GTS and 223 Total Stations
- Topcon GPT 2005 Total Station
- Nomad Data Collectors with Survey Pro (five)
- Leica C10 Scan Station
- Leica P20 Scan Station
- Metro Tech 850 Pipeline Locator
- Metro Tech 810 DX Pipeline Locator

Software

- AutoCAD
- AutoCAD Map 3D
- AutoCAD Cloud Worx
- Carlson Survey
- Trimble Business Center
- Trimble Geomatics Office
- Trimble GPS Pathfinder Office
- Terra Sync Survey Pro
- Trimble Access
- Trimble Survey Controller
- ESRI ArcGIS 10.2
- Microsoft Office
- Adobe Acrobat Professional
- Leica Cyclone 9
- 3D Reshaper