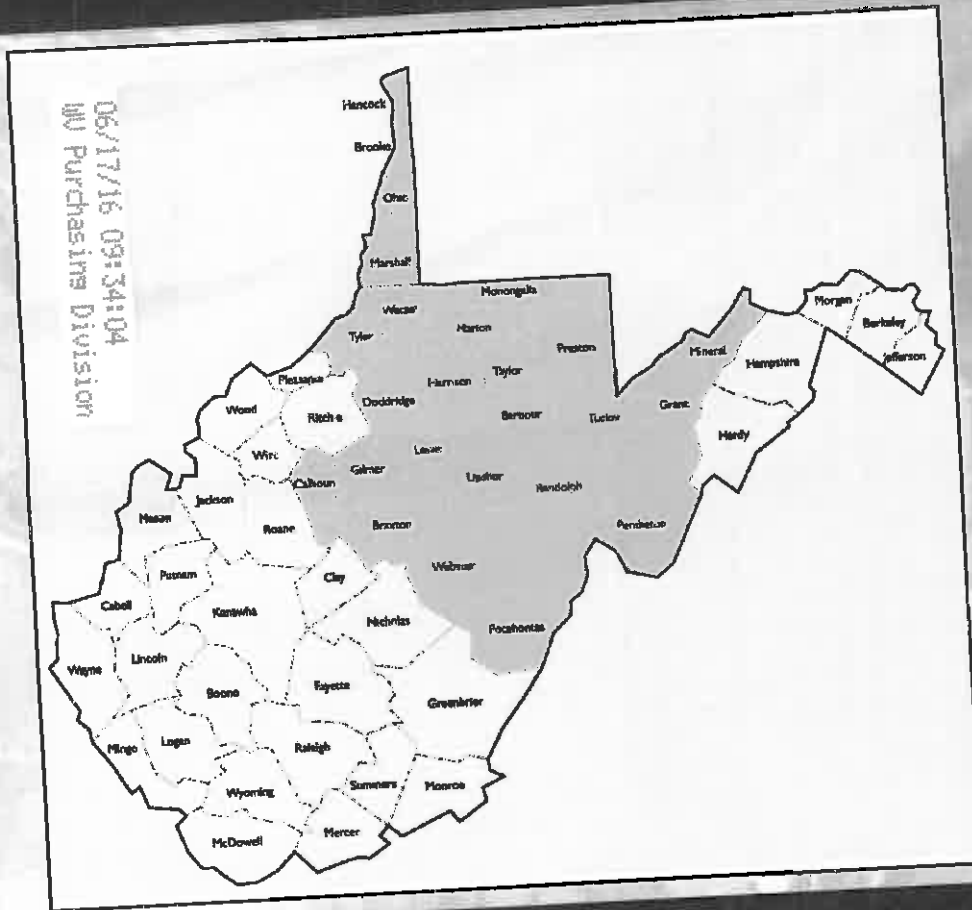


THRASHER

Mapping Services in Northern WV (Open End)
DEP1600000054
June 21, 2016



- | | |
|-------------------|-------------------|
| <i>Hancock</i> | <i>Grant</i> |
| <i>Brooke</i> | <i>Tucker</i> |
| <i>Ohio</i> | <i>Barbour</i> |
| <i>Marshall</i> | <i>Lewis</i> |
| <i>Wetzel</i> | <i>Braxton</i> |
| <i>Tyler</i> | <i>Upshur</i> |
| <i>Monongalia</i> | <i>Pocahontas</i> |
| <i>Preston</i> | <i>Randolph</i> |
| <i>Marion</i> | <i>Pendleton</i> |
| <i>Doddridge</i> | <i>Gilmer</i> |
| <i>Harrison</i> | <i>Calhoun</i> |
| <i>Taylor</i> | <i>Webster</i> |
| <i>Mineral</i> | |

June 21, 2016

THRASHER

Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

RE: Mapping for Northern West Virginia, DEP 1600000054

Dear Members of the Selection Committee:

For decades, Thrasher has worked on projects involving the West Virginia Department of Environmental Protection. As West Virginia's largest privately owned engineering firm, we specialize in multidisciplinary engineering services, including survey and mapping services.

We employ one of the largest survey departments in the Mid-Atlantic region and offer a wide range of land surveying and related services for federal, state, and private clients. We are committed to evolving our techniques and equipment to best serve our clients and their growing needs. Thrasher's experience with survey has evolved into mapping focusing on our ability to analyze, process, and visualize information to assist in solving problems and making sound business decisions. The team at Thrasher utilizes commercially available software as well as develop custom GIS software to provide workable tools that are user friendly for resolving everyday issues.

Thrasher has first hand experience in working with a variety of clients to provide the survey and mapping needed to successfully complete projects. We understand the impact survey and mapping has on DEP AML projects, as we have completed dozens of mine reclamation projects across West Virginia.

Thrasher looks forward to the opportunity to interview for this very important task and continuing our working relationship with the DEP for the benefit of AML projects.

Sincerely,



CHADWICK D. BILLER, PE
Principal-in-Charge

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Thrasher's Background

In 1983, a young engineer with an entrepreneurial spirit and his father, a seasoned engineer with more than 40 years of experience, joined forces to start a civil engineering firm focused on public utility infrastructure in North Central West Virginia. With a commitment to building business through "successful projects and repeat clientele", H. Wood Thrasher, PE and the late Henry A. Thrasher, PE – both graduates of West Virginia University - formed Thrasher Engineering, Incorporated in Clarksburg, West Virginia.

Since that time, Woody Thrasher has grown the company, now known as The Thrasher Group, Inc., into West Virginia's largest privately-owned architectural and engineering firm, and one of the leading A/E firms in the Mid-Atlantic region.

Publicly funded water and wastewater projects were the backbone of the company, and continue to be a large part of its engineering division. Survey, construction monitoring, and inspection services departments were added in the early years of the company to support those projects.

While keeping an eye on the changing marketplace, Mr. Thrasher expanded the company's areas of engineering to include site development for both public and private clientele, and provided design services for transportation including roadways, bridges and airports.

Based upon Thrasher's success with site development and engineering design services, architectural



design was added to Thrasher's ever-expanding scope of services at the urging of their clients. The latest complement to the Architecture Division are master planning and landscape architecture.

Thrasher has grown from its original three employees to a current staff of nearly 350 and continues to prosper. Instilled in each employee is a commitment to maintaining the highest standards of professional service; a tribute to the founders' initial philosophy of

"Successful Projects and Repeat Clientele."

Main Point of Contact:

Mr. Doug Richmond, PS
600 White Oaks Blvd.
Bridgeport, WV 26330
800-273-6541

Office Locations:

Bridgeport, WV
Charleston, WV
Beckley, WV
Canton, OH
Canonsburg, PA
Oakland, MD
Fredericksburg, VA

Thrasher Information:

www.thrashereng.com
thrasher@thrashereng.com

Experience and Capabilities

Thrasher has worked with the Department of Environmental Protection to successfully complete the following AML projects. Thrasher is aware of the importance of accurate survey and mapping that is needed to get these projects to engineering design.

Roaring Creek

- Portals, Subsidence Depressions, Dewatering of Farm pond into subsided areas

Anglins Run

- Portals and AMD

Squire's Creek

- Portals, Highwall, AMD and Refuse

Overfield (Lafferty)

- Clogged Stream, Portal and Landslide

Clarksburg (Lyons) Landslide

- 2 acre Landslide

Lauren Run #1

- Portals, Highwall and AMD

Pleasant Valley (Brown)

- Portals, Highwall and AMD

Roger Camp Hill

- 1/2 Acre AMD Impoudment and Refuse

Stowe (Prince) Landslide

- Emergency Landslide

Owl Creek #2

- Portals, Highwalls, AMD and Refuse

Landgraff Refuse Pile

- Refuse

Canyon Refuse and Dump

- Portals, Highwalls and Refuse



Experience and Capabilities

Thrasher has successfully completed topographic surveys and aerial mapping for the following coal companies in and surrounding West Virginia.

Apogee Coal Company

Scott Depot, West Virginia

ARCH/Beckley, LLC

Eccles, West Virginia

ARCH/Mountain Laurel Mining

Sharples, West Virginia

Greenbrier Minerals, Coronado Coal II

Rupert, West Virginia

MET Resources

Bridgeport, West Virginia

Pinnacle Mining LLC

Cleveland, Ohio

Sugar Camp Energy, LLC

Macedonia, Illinois

Vecellio & Grogan, Inc.

Beckley, West Virginia

Mid-Vol Coal Sales

Princeton, West Virginia

Berkeley Land Surveyors, Inc.

Berkeley Springs, West Virginia

Cliffs Logan County Coal, LLC

Cleveland, Ohio

Magnum Coal Company

Yolyn, West Virginia



Experience and Capabilities

Thrasher's survey teams have performed numerous survey assignments for the WVDOH through our Statewide Agreement. The following is a list of recent projects:

Brooke County - Route 2

Prepared right-of-way plans, legal descriptions, plats, field surveys

Putnam County - Route 35

Prepared route location surveys, right-of-way plans, legal descriptions, plats, field surveys

Fairmont Connector - Construction Stakeout for Mountaineer Contractors

Construction layout, quantity surveys

Hurricane Creek Road - WVDOH Project #U340-35-4.40 00

Construction layout, property corner verifications, GPS control verifications, GPS control confirmation, cemetery location, electronic deliverables, and route location surveys for 6 miles of proposed roadway.

Lodgeville Road - WVDOH Project # X317-50/76-00.00 00

Prepared route location surveys, right-of-way plans, legal descriptions, plats, field surveys

Jakes Run Arch Bridge - WVDOH Project #BR0007(180)

Prepared right-of-way plans, legal descriptions, plats, field surveys

Old Bridgeport Hill Drainage - WVDOH Project # S317-20/75-0.43 00

Prepared right-of-way plans, legal descriptions, plats, field survey

SR 279 North Bridgeport By-Pass - WVDOH Project #X317-279-0.00

Performed route location surveys, construction layout, prepared right-of-way plans, legal descriptions, plats, field surveys

Route 11 Near Musselman High School - WVDOH Project # U302-11-4.36

Prepared right-of-way plans, legal descriptions, plats, field surveys

King Coal Hwy Baisden-Mudlick - WVDOH Project #U330-52-44.70 00 C-2

Prepared right-of-way plans, legal descriptions, plats, field surveys

Corridor H, Grant County, West Virginia - WVDOH Project #X312- H-79.05 00

Prepared route location surveys, right-of-way plans, legal descriptions, plats, field surveys

Experience and Capabilities

Thrasher has completed every phase of topographical survey and mapping needed to properly execute site development for various confidential oil and gas clients. Examples of this work includes the following:

Confidential Client

500 mile survey, mapping and alignment sheets

West Virginia Confidential Client

34 mile survey, mapping, erosion and sediment control plans and routing recommendations

West Virginia Confidential Client

60 mile survey for construction of propane line

Marion and Monongalia Counties, West Virginia

8,000 linear feet of survey and drawings completed within 4 months

TL 536/ TL 543 in Wellsville, NY

22 mile survey, wetland survey, as-built survey and mapping completed within 10 months

LN-19 in Delmont, Pa

2 mile as-built survey for gas transmission line completed within 3 months

TL260 in Bridgeport, Harrison County, WV

1.5 mile survey for gas transmission line completed within 3 months

Tioga/Storage Field in Tioga, PA

4.8 mile stakeout, survey and mapping completed within 10 weeks

TL-272 in Cornwell Compressor Station, Clendenin, WV

Two hundred foot of as-built survey in Kanawha County, West Virginia completed within 1 month

TL-570/TL-263 Boone County, WV

6.4 mile survey for rural areas of Boone County, West Virginia completed within 7 months

TL-342/EXT.4 Waynesburg, Pa

9.7 mile pre-construction survey in Greene County, Pennsylvania completed within 3 months

Experience and Capabilities

TRANSMISSION/ DISTRIBUTION LINE FIELD SURVEY EXPERIENCE

Specific examples of project experience for transmission lines include:

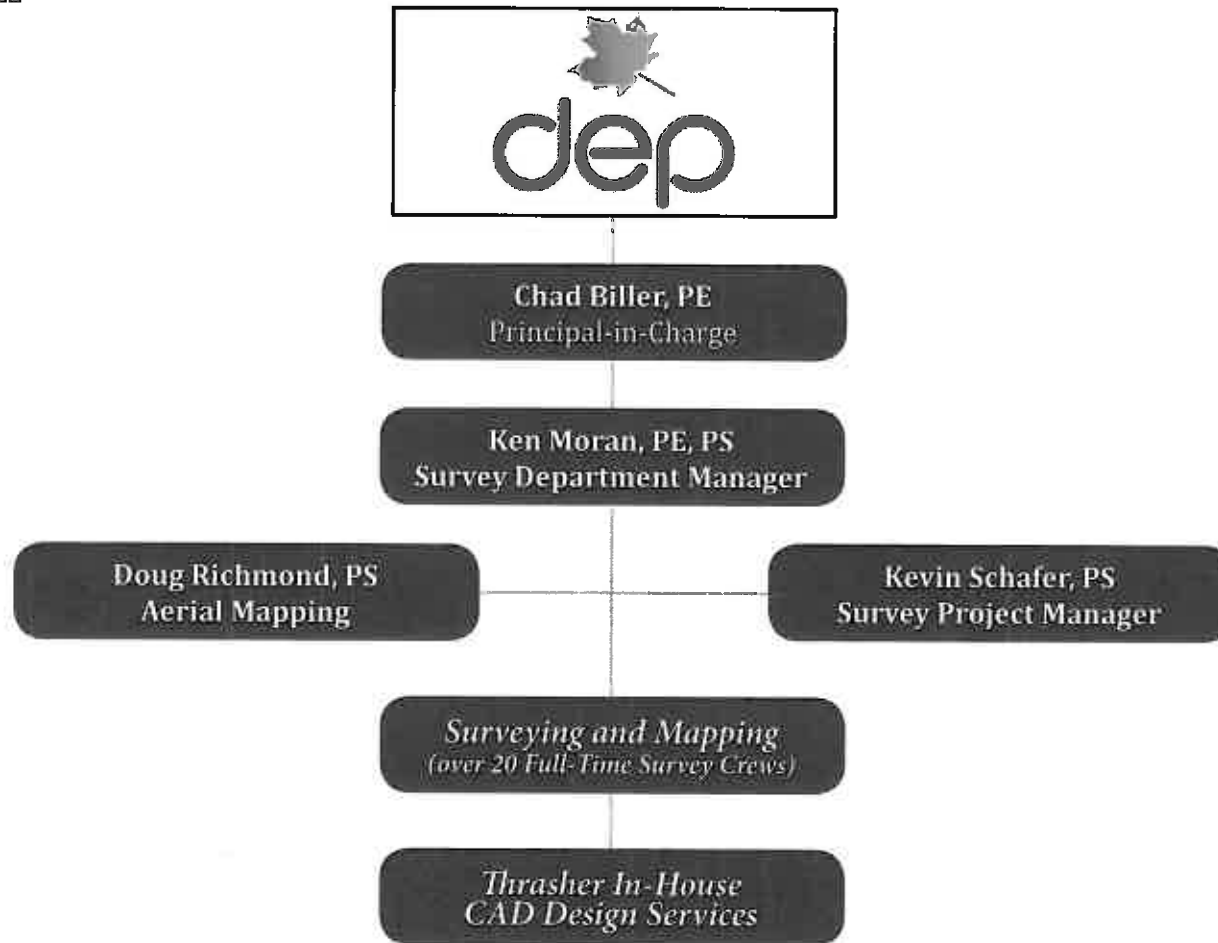
Performed boundary, ALTA, topographic, and/or control and construction stakeout surveys for substation sites at:

- Lazenby – Mercer County, WV
- Jarrold – Raleigh County, WV
- McGraws – Wyoming County, WV
- Caretta – McDowell County, WV
- Hall's Ridge – Mercer County, WV
- Patrick Street – Kanawha, WV
- Claypool Hill – Tazewell County, VA
- Spectra Energy – Washington County, VA
- Garrison Switch – Boone County, WV
- Rockhouse Road – Boone County, WV
- Lockhart – Dickenson County, VA
- Cross Lanes – Kanawha County, WV
- Patrick Street – Kanawha County, WV
- Lanham – Kanawha County, WV
- Duffield – Scott County, VA
- Wellmont – Sullivan County, TN

Performed Transmission Line Surveys at:

- McGraws – Wyoming County, WV
- Patrick Street – Kanawha County, WV
- Halls Ridge – Mercer County, WV
- Lockhart – Dickenson County, VA
- Spectra Energy – Washington County, VA
- Iaeger-Wharncliffe – McDowell/Mingo County, WV
- Duffield, Scott County, VA

Project Team



Contract Manager: Doug Richmond, PS
Telephone Number: 800-273-6541
Fax Number: (304)624-7831
E-Mail Address: drichmond@thrahsereeng.com

Chadwick Biller, PE

Principal-in-Charge

In 1999, Chad Biller, PE, joined the team at Thrasher and is now a partner within the firm. Mr. Biller has extensive experience in all aspects of civil engineering. He has successfully completed hundreds of projects for the WVDEP and WVDOH. Chad has a clear understanding of the procedures required for the DEP, as he has completed over a dozen AML restoration projects. Chad's knowledge of this type of project will be helpful to the survey and mapping team.

Education:

- Bachelor of Science, Civil Engineering - West Virginia University

Registrations:

- Registered Professional Engineer
 - States of West Virginia, Pennsylvania, and Ohio

Affiliations/Certifications:

- American Society of Highway Engineers
- American Society of Civil Engineers
- National Society of Professional Engineers

Related Experience Includes:

- **WVDOH Corridor H, Davis to Bismark - Mr. Biller served as Principal-In-Charge/Project Manager for the design of over two miles of a four-lane divided highway. This roadway includes an additional 1.5 miles of secondary roads.**
- **WVDOH Jakes Run Bridge - Mr. Biller served as Principal-In-Charge/Project Manager for the design of a 95 foot long, single span steel girder bridge, roadway approaches, water line relocation and right-of-way .**
- **WVDOH Orlando Bridge - Mr. Biller served as Principal-In-Charge/Project Manager for the single concrete box beam bridge with approximately 1,000 LF of roadway realignment.**
- **Landgraff Refuse Pile: Involved a ± 3 acres exposed refuse site, 500 linear feet of dangerous highwall and streambank restoration of an unnamed tributary of Elkhorn Creek. The scope of work for this project included regrading the refuse site from the unnamed tributary's stream bank and to reclaim the highwall. Then an adjoining borrow sites were used to obtain sufficient suitable material to entomb the refuse for re-vegetation. The project site covered a total area of 4.3 acres and reclamation included ±16,000 cubic yards of earthwork.**
- **Stowe Landslide: Involved a 2 acre landslide caused an abandoned portal blowout. The slide mass was situated directly above a private residence at the base of a steep mountainside. The slide material upon removal was transported to a nearby waste site, spread, dried and compacted. The project site covered a total area of 2.9 acres and reclamation included ± 6,000 cubic yards of earthwork.**

Ken Moran, PE, PS

Survey Department Manager

Kenneth P. Moran, PE, PS, serves as Vice President of Thrasher. Mr. Moran is the Chief Operating Officer of Thrasher and the manager of the Survey Division within the firm. His areas of responsibility include quality assurance and quality control of engineering design and survey services for projects ranging from well site development through midstream.

Aside from his work in the oil and gas field, Mr. Moran has extensive experience in all aspects of engineering and surveying with an emphasis on project management and administration. Ken works on both large-scale, multi-million dollar projects as well as smaller community improvement projects.

Education:

- Bachelor of Science, Civil Engineering Technology - Fairmont State University

Registrations:

- Registered Professional Engineer
 - States of West Virginia, Virginia, and Ohio
- Registered Professional Land Surveyor
 - State of West Virginia

Related Experience Includes:

- **Statewide Aerial Survey/Mapping Open End Contract - Statewide, West Virginia**
- **WVDOH Road Widening (Big Elm) - Harrison County, West Virginia**
- **WVDOH Robert C. Byrd High School Access Road - Harrison County, West Virginia**
- **Doddridge County Recreation Park Phase I Property Development - Doddridge County, West Virginia**
- **Confidential Client - 500 mile survey, mapping and alignment sheets**
- **West Virginia Confidential Client - 34 mile survey, mapping, erosion and sediment control plans and routing recommendations**
- **West Virginia Confidential Client - 60 mile survey for construction of propane line**
- **Marion and Monongalia Counties, West Virginia - 8,000 linear feet of survey and drawings completed within 4 months**
- **TL 536/ TL 543 in Wellsville, NY - 22 mile survey, wetland survey, as-built survey and mapping completed within 10 months**

Doug Richmond, PS

Aerial Mapping

Douglas Richmond joined Thrasher in 2012 and serves as a Senior Survey Manager for the firm, as well as heads up the entire Survey Division in Virginia. Mr. Richmond has experience nationally and internationally in survey construction, engineering, GPS scales and technical support and training related to the fields of surveying and mapping for public and private clients.

Mr. Richmond has performed numerous integrated survey projects utilizing GNSS, Robotic Total Station, 3D Laser Scanning, Hydrographic Tools, and Photogrammetry.

Education:

- Bachelor of Science, Civil Engineering - University of New Orleans

Registrations:

- Registered Professional Surveyor
Commonwealth of Virginia [REDACTED], State of Louisiana, [REDACTED] Ohio [REDACTED], Texas [REDACTED] Mississippi [REDACTED]
Alabama [REDACTED] and North Carolina [REDACTED]

Affiliations/Certifications:

- Certified Floodplain Manager
- Virginia Association of Surveyors
- Virginia Association of Mapping and Land Information System

Related Experience:

- NGS Height Modernization Surveys - various locations
- FAA Airport Surveys - various locations
- Mid-Atlantic & Midwest NAVFAC Projects (VA, MD, DC, MI, MN, WI, ND, SD, IA, NE) - various locations

Kevin Schafer, PS

Survey Project Manager

Mr. Schafer has over 28 years of experience in the field of surveying. His areas of expertise include; easement and right-of-way surveys, as-built surveys, subdivision design and layout, construction and site surveys, topographic surveys, water and sewer line surveys, boundary surveys, accident surveys, oil and gas surveys, ALTA/ASCM Land Title Surveys and GPS surveying. He has given expert testimony in court cases in Putnam, Nicholas, and Kanawha counties. His responsibilities include; management, supervision and development of staff for all surveying projects.

Mr. Schafer has obtained a vast experience in the both the field and office aspects of surveying. He is very knowledgeable in area of computer mapping using AutoCAD products. Along with his surveying experience he has also worked on WVDOH projects, Delaware DOT projects, Virginia DOT projects, AML reclamation projects, hazardous waste site projects and bridge projects.

Education:

- Valencia Community College, Orlando, FL

Registrations:

- Professional Land Surveyor:
West Virginia
Kentucky

Related Experience:

- **Boundary Surveys - Completed over two thousand boundary surveys throughout the State of West Virginia.**
- **West Virginia-American Water Company - Charleston, West Virginia- Surveys for the construction of Plant Sites, Tank Sites, and Booster Stations, throughout the state.**
- **South Charleston Annexation Survey - Kanawha County, West Virginia - Research, field work, drafting for annexation plat for the Southridge Centre area addition to the corporate limits of the City of South Charleston.**
- **Woodbridge Subdivision - Charleston, West Virginia - Design, plans and layout based upon field survey of over 200 acres. Assisted with the preparation of the Subdivision plans and was responsible for the survey crews setting property corners.**

Certified Signature Page



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

State of West Virginia
 Request for Quotation
 27 — Miscellaneous

Proc Folder: 188928

Doc Description: Addendum No. 01-Mapping Services in Northern WV

Proc Type: Central Master Agreement

Date Issued	Solicitation Closes	Solicitation No	Version
2016-06-15	2016-06-21 13:30:00	CRFQ 0313 DEP1600000054	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:

The Thrasher Group, Inc.
 600 White Oaks Blvd
 Bridgeport WV 26330

304-624-4108

FOR INFORMATION CONTACT THE BUYER

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

Signature

FEIN # 55-0633596

DATE June 21, 2016

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

ADDITIONAL INFORMATION:

Addendum

Addendum No.01 issued to publish and distribute the attached information to the vendor community.

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Control Surveying	600.00000	HOUR	\$100.00	\$60,000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description :
(Spec Item 3.1.1.2 & 4.2)

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
2	Topographic, Planimetric and Check Surveying	1800.00000	HOUR	\$100.00	\$180,000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description :
(Spec Item 3.1.1.3 & 4.2)

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
3	Topographic Mapping - (0-25 Acres)	15.00000	ACRE	\$133.33	\$199.95

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description :
(Spec Item 3.2 & 4.2)

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
4	Topographic Mapping - (25-50 Acres)	30.00000	ACRE	\$83.33	\$2499.90

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description :
(Spec Item 3.2 & 4.2)

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
5	Topographic Mapping - (50-100 Acres)	75.00000	ACRE	\$66.66	\$4999.50

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description :
(Spec Item 3.2 & 4.2)

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
6	Topographic Mapping - (Over 100 Acres)	125.00000	ACRE	\$48.00	\$6000.00

Comm Code	Manufacturer	Specification	Model #
81151601			

Extended Description :
(Spec Item 3.2 & 4.2)

SCHEDULE OF EVENTS

Line	Event	Event Date
1	Tech Question Deadline at 5:00 PM, EST	2016-06-03

Addendum Acknowledgment Form

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: DEP1600000054

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.

The Thrasher Group, Inc.

Company



Authorized Signature

June 21, 2016

Date

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

Revised 6/8/2012