Statement of Qualifications to provide Engineering Services

To The West Virginia Department of Environmental Protection,

Office of Abandoned Mine Lands & Reclamation, for

DEP 15063 PAGETON (LAMBERT) PORTALS DESIGN





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WV PURCHASING DIVISION

Northgate Business Park 300 Association Drive Charleston, WV 25311 304-343-7601 304-343-7604 Fax 30 Columbia Boulevard P.O. Box 1532 Clarksburg, WV 26301 304-624-4108 304-624-7831 Fax

www.thrashereng.com thrasher@thrashereng.com 3000 Thayer Center Oakland, MD 21550 301-334-3866 301-334-4020 Fax



30 Columbia Boulevard Clarksburg, WV 26301 (304) 624-4108 www.thrashereng.com 300 Association Drive Charleston, WV 25311 (304) 343-7601

June 14, 2010

West Virginia Department of Environmental Protection Office of Abandoned Mine Lands and Reclamation c/o State of West Virginia Department of Administration Purchasing Division 2019 Washington Street, East Charleston, WV 25305

RE: DEP 15063, Pageton (Lambert) Portals Design, Expression of Interest

Dear AML Chief and Selection Committee:

Thrasher Engineering, Inc. is very interested to provide engineering design services for the Pageton (Lambert) Portals design project in McDowell County, West Virginia. We will provide the highest level service and technical proficiency, in a cost efficient manner, and strive to beat all deadlines.

From the information provided in the RFQ and a site visit, we have developed an understanding of the project needs and approach. Thrasher Engineering has designed numerous grading and open channel drainage systems, mine seals and other features required by this project. Our previous WVDEP-AML remediation projects: Anglin Run in Barbour County and Roaring Creek in Randolph County, required similar design services. We have included a summary of our qualifications related to the "Selection Criteria" listed in the RFQ, under the first tab.

We would appreciate your consideration to be short listed so that we may present our detailed approach for this project to the selection committee.

Sincerely,

THRASHER ENGINEERING, INC.

Steven T. Engelhardt

**Business Development Manager** 

# SELECTION CRITERIA

A. West Virginia Professional Engineers (Civil or Mining) in the Primary Office.

Thrasher Engineering, Inc. has **11 West Virginia registered Professional Engineers** in our Primary Office located in Clarksburg, WV.

Woody Thrasher, PE Mike Nestor, PE Ken Moran, PE Matt Fluharty, PE Chad Riley, PE Doug Forni, PE Chad Biller, PE Daniel Ferrell, PE Clay Riley, PE Tom Urquhart, PE Jeff Gola , PE

B. Reclamation engineering design experience of the Primary Office's WV RPE as it relates to the specific project problem areas.

Chadwick Biller, PE, will serve as Project Manager and has over 18 years of civil engineering experience with specific emphasis on mine reclamation, site development, highways, roads, bridges, and airports. Mr. Biller has managed the design and construction administration for a number of large grading and drainage projects in West Virginia. These projects have included design for mine reclamation, industrial/business parks, highways, and airports. Mr. Biller is also familiar with reclamation of mine portals, using either wet or dry seals.

Larry Nottingham, PE, with NGE will serve as our Geotechnical sub-consultant. He has over 30 years of AML design experience.

C. Available WV-AML Design Teams within the Primary office (A design team should consist of one Project Engineer (Civil or Mining),, one CAD person and available support personnel as required by the particular project)

Thrasher Engineering has **11 WV-AML Design Teams** within the Primary Office, and over 120 additional support personnel that are available if required by the project.

CAD
Brady Stutler
Cliff Cleavenger
Jeff Pine
Jason Heflin,
Phil Lantz
Joe Lowther
John Sirianni
Jeff Bonaventura
Mike Oldaker
Zack Gain
Trudy Hiel

# STATEMENT OF QUALIFICATIONS

# FIRM OVERVIEW

# THRASHER ENGINEERING, INC.

## Established

1983

# Officers

H. Wood Thrasher, P.E., Kenneth P. Moran, P.E., P.S. Kurt L. Newbrough, P.S.

Partners

Wm. Randy Watson Chadwick Biller, P.E. Chad Riley, P.E. Clay P. Riley, P.E. Daniel E. Ferrell, P.E.

Kenneth P. Moran, P.E., P.S.

Jonathan Carpenter, P.E.

Aaron Denham

President Vice-President Secretary/Treasurer

**Public Utilities** 

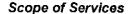
Site Development/Highways/Airports

Site Development Public Utilities Public Utilities Vice-President

Charleston Branch Manager/

**Public Utilities** 

Testing & Inspection



Public Work – Water / Sewer / Treatment Plants / Facility Plans / Business and Industrial Parks Site Development – Industrial/ Business

/ Commercial / Residential

General Civil Engineering - Municipal Engineering /

Subdivisions / Paving / Highway/ Roadways

**Environmental Engineering** 

Architecture

Landscape Architecture

Land Surveying, Platting, Legal Description Preparation Construction Management / Materials Testing / Inspection

GIS Mapping and Software Development

Offices

30 Columbia Boulevard, Clarksburg, WV 300 Association Drive, Charleston, WV 3000 Thayer Center, Oakland, MD

380 Airport Circle, Beckley, WV – Lab & Field Office Princeton, WV – Pentree, Incorporated – Affiliate



Thrasher Engineering, Inc. Office – Clarksburg, WV



Thrasher Engineering, Inc. Office – Charleston, WV

# STATEMENT OF QUALIFICATIONS

Thrasher Engineering, Inc. is a civil engineering consulting firm, specializing in public works projects. The majority of Thrasher Engineering's work involves publicly funded water treatment and distribution systems, sewage collection and treatment systems, and industrial and business parks. Over \$600 million in water, sewer, site development, survey and construction management projects have been designed and supervised by the firm

H. Wood Thrasher and Henry A. Thrasher formed the company in 1983 with a commitment to excellence and professionalism in engineering. H. Wood Thrasher, P.E. remains principal of the company; also serving as principals are Kenneth P. Moran, P.E., and Kurt L. Newbrough, P.S.

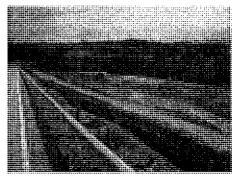
Providing a full range of professional engineering services, Thrasher Engineering, Inc. currently maintains a staff of 170 full-time employees. Our staff includes registered professional engineers, graduate engineers, registered professional surveyors, and support staffing of surveyors, design technicians, CADD technicians, construction managers, and secretarial/clerical personnel. This professional staff has a wealth of experience and is our greatest asset. This includes not only the principals but also the technicians, surveyors, construction managers, and office support staff. Combining education with experience, the qualified staff of Thrasher Engineering strives to provide service that is second to none and is committed to maintaining a strong reputation for quality work. The company's full and diverse staff has the resources to handle many projects, both large and small, simultaneously.

# **SERVICES**

The expertise of our company is confirmed in the variety of projects successfully completed. Areas of expertise that we believe are most beneficial to the WV Department of Environmental Protection Office of Abandoned Mine Lands and Reclamation for the **Pageton (Lambert) Portals** design project include:

# SITE DEVELOPMENT

Thrasher Engineering has planned, surveyed, designed and provided construction management services for over 50 site development projects for both public and private clients. Projects ranging from sites for residential housing to business and



Storm water Pond, Canaan Federal Prison, Scranton, PA

industrial parks to multi-purpose "live, work and play" communities are included in our range of site development projects.

Our objective in site development engineering is to go beyond just the engineering aspect of the project; we work as a team with our clients to understand their present and future needs. With that information, we work with them to evaluate site locations that best suit their short and long-term goals.

Our Site Development Services Include:

<u>Planning and Conceptual Design</u>- evaluation of potential sites; recommendation of most functional, most cost-effective alternative; layout of site reflecting best use of land available; design of off-site and on-site (underground) including water service, sanitary sewer service, storm drainage facilities, telephone, electrical service, and television cable service; obtaining all permits necessary to allow construction including State Health Department for extension of water and sewer lines, WV Division of Environmental Protection Sediment and Erosion Control Permit, WV Division of Highways entrance permit, as well as any local permits required; roadway design; layout of industrial lighting; and construction management services to assure compliance with design.

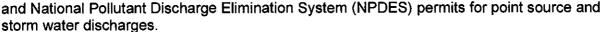
<u>Grading Plans</u> - which includes development of cut and fill quantities and construction plans (showing existing and proposed contours, structures, and facilities on site) to allow for the best use of available land.

<u>Utility Layout/Mapping</u> - includes design of utility extensions to serve existing and proposed facilities, as well as the complete mapping of existing utilities.

# STORM WATER DRAINAGE / SEDIMENT AND EROSION CONTROL

Our experience includes development of Sediment and Erosion Control measures on all types of construction sites as required by the WV Division of Environmental Protection, design of drainage facilities including piping, intake structures, etc., for site stabilization and flood control.

Our staff members have considerable hydrologic and hydraulic design experience and have successfully obtained local, state, and federal erosion and sediment control permits





Capabilities in the evaluation and design storm water drainage include:

- Hydrology Studies / Hydrographic Mapping
- □ Storm Water Collection Systems
- Detention Ponds
- Injection Wells
- Underground Storage
- □ Combined Sewer Overload (CSO) separation

# **ENVIRONMENTAL REPORTING SERVICES**

Thrasher Engineering, Inc. provides full environmental assessment and clearance services. We have more than 19 years of experience conducting environmental/natural resource compliance consultation with West Virginia Division of Environmental Protection, (WVDEP), Federal Aviation Administration and Federal Highways Administration, US Department of Agriculture-Rural Development Utility Program, and US Environmental Protection Agency (EPA).

# Experience includes:

- □ Permitting Related Activities (401 and 404)
- □ NEPA Environmental Document Preparation
- Wetland Delineation and Mitigation
- □ Rare, Threatened and Endangered Species Section 7 Informal Consultation
- □ Rare, Threatened and Endangered Species Section 10 Habitat Conservation Plans
- Water Use and Water Quality
- Air and Noise Impacts, Assessments, and Controls
- □ Soils and Geological Resources
- Cultural Resources –(Sub contracted to a reputable and approved Cultural Resource Consultant)
- Hazardous Materials
- Sediment and Erosion Control
- Consent Orders

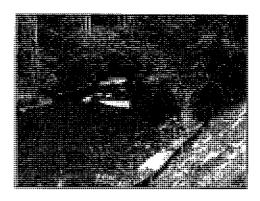
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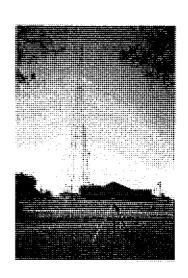
- □ Compliance Schedules
- Site investigations
- SPCC Plans, Contingency Plans, Ground Water Protection Plans and Storm Water Pollution Prevention Plans
- Waste Treatment and Site Remediation
- Waste Disposal
- Channel Restoration
- Stream Bank Stabilization
- Enforcement Actions

# **SURVEY**

In addition to a full service professional engineering staff, Thrasher Engineering maintains a complete surveying department which includes four licensed professional land surveyors, ten full-time survey crews, CADD technicians, and office support staff.

We perform our work utilizing the most current methods and equipment available. Our survey work is accomplished using global positioning systems (GPS) and electronic distance measuring (EDM) survey stations with data gathering capabilities.





The type of surveys provided by Thrasher Engineering varies greatly as well and covers virtually all aspects of land surveying, such as:

<u>Pre- and Post-Mining Surveys</u> - vertical and horizontal control, inspector's report of protected structures, interior and exterior photographs, and videos. Thrasher Engineering provides these survey services for numerous coal companies, including Eastern and Martinka. Additional services performed for Eastern includes construction layout for impoundments, shaft site boundary and topographic surveys, map editing, and collection of well inventory data

<u>Boundary Surveys</u> - verification of land owners, traverse and location of existing monuments, computations of closure, establishment of property corners, actual field stakeout, and preparation of plats and legal descriptions for property owners.

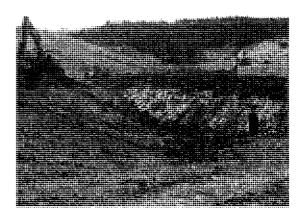
<u>Topographic Surveys</u> - location of existing features and determination of contours used in engineering layout of water distribution systems, sewer collection systems, industrial park layouts, etc.

<u>Construction Layout</u> - providing horizontal and vertical control for contractor's use and using this information to establish construction controls.

GPS Surveys - horizontal and vertical control networks

# CONSTRUCTION MANAGEMENT AND INSPECTION

Thrasher Engineering knows how projects should be built. We can provide the knowledgeable and experienced personnel necessary to manage the construction phase of your project. Our project managers and inspectors are experienced in all types of construction activities. From utilities, site development and storm water management to roads, bridges and airports, we apply our construction management and inspection expertise to ensure successful projects. Our construction managers and our inspectors have years of experience; many of our inspectors are certified by the West Virginia Department of Transportation / Division of Highways for roadwork and materials testing.



# **MATERIALS TESTING**

Thrasher Engineering's Materials Testing Department is capable of performing a wide range of field and laboratory tests. Our laboratory at our Clarksburg, WV office is one of only three nationally certified facilities in the State of West Virginia .Additionally, our engineers and technicians who perform tests both in the field and in the lab are also certified by the State.

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Concrete Testing and Inspection
Soil Testing and Inspection
Aggregate Testing and Inspection
Mortar and Grout
Asphalt
Paint Coatings
Sprayed-on Fireproofing

Subsidence InspectingCaisson and Piling Inspection

# GEO-TECHNICAL SERVICES

For these projects, we will utilize Novell Geo-Environmental, a Certified Minority/ Women Business Enterprise (MBE/WBE).

# **EQUIPMENT AND SOFTWARE**

Thrasher Engineering, Incorporated provides one of the largest networks of computer aided design (CAD) equipment, software and trained personnel in the State of West Virginia.

AutoCAD Landdesktop 2008 and Microstation V8 software is utilized at 48 CAD stations within the Group. Additionally, equipment includes 10 large format (size E) plotters and 5 large format plotter / scanners.

CAD plans are prepared by both dedicated CAD employees and by staff engineers and engineering technicians in each of the firm's offices. This equipment allows our design department to perform accurate work quickly and efficiently. All departments have the capability to electronically transmit data to clients requesting this service. This blend of experienced personnel utilizing modern equipment results in successful projects and satisfied clients.

# FIRM MANAGEMENT AND STAFFING

Thrasher Engineering offers the largest engineering staff in the State of West Virginia. The expertise of the Thrasher Engineering staff is a combination of education and experience; it is reflected in all aspects of our services. The firm is led by a talented group of principals and partners who are dedicated to the success of our projects and the satisfaction of our clients.

# **PROJECT TEAM**

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Thrasher Engineering has assigned a team of experienced professionals to the **Pageton** (Lambert) Portals design project.

Chadwick D. Biller, P.E. will be the Project Manager. His role in this project will be to oversee all design aspects of the project and work closely with the DEP/ AML office to ensure timeliness client satisfaction and oversee budgetary aspects. Mr. Biller is a Partner in Thrasher Engineering, Inc. and manages site development, transportation and the survey projects.

**Mike Nestor** will serve as **Project Engineer** and be responsible for design of the project. Mr. Nestor's experience includes drainage and sediment control design projects for site development projects. He served as design engineer for the Roaring Creek and Anglin Run AML projects.

Jeff Pine will be responsible for CAD design for the project. Mr. Pine provides design infrastructure projects including street and lot layout, street profiles, extension of the public sewer and water systems including utility plans and profiles, storm water drainage, storm water management, erosion and sediment control plans and NPDES permitting.

Geo-technical services will be under the direction of Larry Nottingham of Novel Geo-Environmental, a Certified DBE business.

Should the DEP choose to retain Thrasher Engineering, Inc. for the construction monitoring aspect of the project, Thrasher Engineering, Inc. has one of the largest construction inspection teams in the State. Nearly 30 inspectors are available to provide services for the project. **Aaron Denham** serves as supervisor of Construction Management and Materials Testing. He is a graduate of Fairmont State University and is a Level V Certified Inspector by the WV DOH.

Resumes of the project team members follow as additions to the information included in the AML Consultant's Confidential Qualifications Questionnaire.

# CHADWICK D. BILLER, P.E.

Partner / Project Manager



# SUMMARY OF EXPERIENCE

Mr. Biller has experience in all aspects of engineering with specific emphasis on mine reclamation, site development, highways, roads, bridges, and airports. Mr. Biller joined Thrasher Engineering in 1999 and is a partner of Thrasher Engineering. For Thrasher Engineering, Mr. Biller is responsible for WV DEP AML project and public and private site development projects, specializing in airports, highways, roads and bridges. As Project Manager for all of the firm's WVDOT/DOH projects, he has extensive knowledge of state and federal building standards.

EDU	CA	TIO	N
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☐ B.S., Civil Engineering, 1992 – West Virginia University

☐ Grafton Hospital, Helipad Relocation

<u>CERT</u>	<u>TIFICATIONS</u>
	Registered Professional Engineer (PE), State of West Virginia #13620
	Registered Professional Engineer (PE), State of Pennsylvania #PE056012E
	Registered Professional Engineer (PE), State of Ohio #64594
REPR	RESENTATIVE PROJECT EXPERIENCE
Site D	evelopment Projects
	WV DEP Anglin's Run and Roaring Creek Projects
	Taylor County Commission, Re-roofing of Courthouse and Jail
	Fairmont State University Aerospace Center
	Raleigh County Memorial Airport Industrial Park
	Putnam Business Park
	Wood Products Business Park
	Aurora Flight Sciences
	Various Subdivision in Berkeley County Ranging From 12 to 420 Lots
	Site Plan for Hi-Tech Consortium Expansion, Fairmont, WV
	Site Plans for Nippon Thermostat, Green Metals and Schwans, Putnam County
	Pendleton County Courthouse Annex
	Wingate Hotel, Charles Pointe, Bridgeport, WV
	Daycare Center and USDA Parking Lot, Hardy County
	City of Pleasant Valley, Sidewalks
	Snowshoe Mountain Resort / Intrawest – The Seneca
	Wetland Replacement Project, Putnam County
	Hurricane Business Park
	Shinnston City Park, Including Pool and Bathhouse
	City of Bridgeport, Walking Trail and Bridge
Airne	ata.
Airpor	
	Harrison Marion Regional Airport – Improvement Master Plan
	Raleigh County Airport – Business Park and Master Plan

Highw	Highway/Road/Bridge Projects				
	Old Bridgeport Hill New Storm Drainage System				
	Snowshoe Drive Upgrade				
	King Coal Highway				
	Terra Alta Curve				
	Lodgeville Road				
	North Bridgeport Bypass				
	Corridor H				
	Upgrade of US Route 19				
	East Street and US Route 50, Parkersburg				
	Merrick Creek Connector				
	City of Bridgeport, Valley Drive, Chenoweth Drive, Village Drive and Meadowbrook Mall				
	Road				
	Lodgeville Bridge				
	Indian Fork Bridge				
	Jakes Run Bridge				
	Littleton and Watersnake Bridges				
	Verner Bridge				
	Rehabilitation of the 5 <sup>th</sup> Street Bridge, Parkersburg				
	Rehabilitation of the 35 <sup>th</sup> and 36 <sup>th</sup> Street Bridges, Charleston				
	Kittonsville Bridge Replacement, Lewis Co.				
	Water Street Bridge Replacement, Logan Co.				
	Wayne County High School Bridge Replacement				
	David Morgan Memorial Bridge, Marion County				

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# MIKE NESTOR, E.I.T. Project Manager / Engineer



# **EXPERIENCE**

Mr. Nestor joined Thrasher Engineering in 2005 and serves as Project Manager and Engineer. Mr. Nestor has a wide range of experience in residential and commercial site development projects, utilizing all aspects of infrastructure design including street and lot layout, street profiles, extensions of public sewer and water systems, storm water drainage, storm water management, erosion and sediment control plans, and NPDES permitting. In addition, Mr. Nestor oversees all general operations within The Berkeley Associates, directing administrative staff, CAD technicians, and staff engineers to ensure successful completion of projects covering site development, surveying, material testing, and environmental services.

# **EDUCATION**

☐ B.S. Civil Engineering Technology – Fairmont State University, 2003

# **CERTIFICATIONS**

☐ Engineer Intern, State of West Virginia

# **AFFILIATIONS**

- American Society of Civil Engineers
- ☐ Eastern Panhandle Home Bullders Association

# REPRESENTATIVE PROJECT EXPERIENCE

	WV DEP AML PORTAL AND DRAINAGE DESIGN- Design for access roads, drainage control channels, re-grading and wet-seal of deep mine portals for Anglin's Run and Roaring Creek
	sites in Barbour County.
	MILLARDSVILLE VILLAGE – 26 townhouse lots on approximately 3.15 acres. Completed sketch plat, storm water management design, and street profiles.
	FAIRFAX FARM Section 2 – 15 single family residential lots on approximately 36.73 acres.
	Completed development of drainage areas, grading plan, erosion and sediment control plan, layout of lots, and Preliminary Plat design.
_	PIKESIDE MEADOWS Section E – 63 townhouse lots on approximately 17.51 acres.
_	Prepared drawings for Public Service Districts.
	LITTLE GEORGETOWN ESTATES Sections 1 and 2 – 64 single family residential lots on
	approximately 127 acres. Completed lot layout, septic layout, design of sediment basin,
	turning lane, erosion and sediment control, and Preliminary Plat.
	WEBBER SPRINGS Section 3 – 119 single family residential lots on approximately 32.81
	acres. Completed design of turning lane on WV Route 51.
	BROOKSIDE ESTATES Section 1 – 60 single family residential lots on approximately 101.86 acres. Completed Sketch Plat design along with septic reserve layout and initial grading
	and profiles.
_	CREEKSIDE MEADOWS – 95 single family residential lots on approximately 101.86 acres.
_	Completed to levert States Blat design victor and account of approximately 101.00 acres.
	Completed lot layout, Sketch Plat design, water and sewer extensions, and design of storm water management facilities.
	MULLBERRY KNOLL – 10 townhouse lots on approximately 1.5 acres. Completed Sketch
	Plat design, water and sewer extension, grading plan, erosion and sediment control plan, and design of storm water management facilities.
	<del>-</del>

	SHENANDOAH OFFICE PARK – Two commercial buildings totaling 50,000 sf. Sketch Plat
гъ	design.
_	SPRING HILL Section 6 – 15 single family residential lots on approximately 10 acres.
	Completed design of storm water management, grading plan, and preparation of drawings for Preliminary Plat submittal.
_	MAIDSTONE ON THE POTOMAC – 108 single family residential lots on approximately 40.5 acres. Completed Sketch Plat design, water and sewer extensions, grading plan, erosion
	and sediment control plan, drainage plan, design of storm water management facilities, and
	Preliminary Plat design.
	NATIONAL PROPANE – Bulk Propane Storage Facility and office space on approximately
	5.5 acres. Completed Sketch Plat, water and sewer extensions, grading plan, erosion and
	sediment control plan, drainage plan, design of storm water management facility, and
	Preliminary Plat design.
	BACK CRÉEK ACRES – 3 single family residential lots on approximately 6 acres.
	Completed Preliminary Plat, grading plan, and erosion and sediment control plan.
	MARTINSBURG INTERNAL MEDICINE - Completed Site Plan for city approval of 800 sf
	office addition.
	CHESTNUT HILL ESTATES – 29 single family residential lots on approximately 66 acres.
	Completed Sketch Plat design, lot and street layout, grading plan, and profiles.
Ч	MVB BANK ADDITION - Completed Site Plan for approval of 900 sf bank addition.
	SPRING HILL Section 7 – 7 single family residential lots on approximately 7 acres.
	Completed lot layout, water and sewer extensions, grading plan, erosion and sediment
	control plan, profiles, grading plan, drainage plan, storm water management, and
	Preliminary Plat design.
_	WILLIAMSPORT PARK ROAD EXTENSION – 650 foot road extension in Williamsport, MD.
	Completed design of road, including grading, drainage, storm water management, profiles, permitting, and specifications.
	INWOOD AND BAKER HEIGHTS WASTE WATER TREATMENT PLANTS - Completed Site
_	Plans for county approval of facility upgrades.
	LEISURE LIVING ESTATES Section 4 – 10 single family residential lots on approximately 7
	acres. Completed Sketch Plat design, water and sewer extensions, grading plan, profiles,
	erosion and sediment control plan, drainage plan, storm water management, and
	Preliminary Plat design.
	CHUCK'S PIZZA - Completed Site Plan for 1,200 sf pizza shop on approximately 1.67 acres.
	Design included site layout, grading plan, erosion and sediment control plan, drainage and
	storm water management.
	FEDEX SMARTPOST – Upgrades to existing FedEx SmartPost location, including the
	addition of a guard shack and extension of gravity sewer system. Proposed work was
r-1	granted approval with county building permit.
ш	OAK HILL, WV DRAINAGE PROJECT - Design of storm sewer upgrades for the town of Oak
	Hill. Project included the addition of a 2' x 6' box culvert under Trump Avenue, construction
	drawings, and specifications.
_	TBA OFFICE SITE - Construction of two new office buildings totaling 6,200 sf on
	approximately 1.6 acres. Completed Sketch Plat, grading plan, and erosion and sediment control plan.
	contract plant.

# JEFF PINE CADD Operator



# SUMMARY OF EXPERIENCE

site plan, road profile, street profile

Mr. Pine Joined Thrasher Engineering in 2005 and serves as CADD Operator for the firm. His duties entail all aspects of infrastructure design including street and log layout, street profiles, extension of the public sewer and water systems including utility plans and profiles, storm water drainage, storm water management, erosion and sediment control plans and NPDES permitting.

300111	Water management, crosses and comment contact plants and a part of the part of
EDU	ICATION
	Certificate, Computer Alded Design – Hagerstown Community College Diploma – Clear Spring High School
CER	RTIFICATIONS
	Certified Forklift Operator through Bragunier Masonry
REF	PRESENTATIVE PROJECT EXPERIENCE
a	WV DEP AML PORTAL AND DRAINAGE DESIGN- Design for access roads, drainage control channels, re-grading and wet-seal of deep mine portals for Anglin's Run and Roaring Creek sites in Barbour County.
	Mockingbird Mobile Home Park – 25 lots with public utilities, draft lot layout and concept plan for proposal
	Maidstone on the Potomac – Single family residential lots with public utilities; slope analysis
	Brookside Estates – 60 Single family residential lots on 125 Acres with individual wells and septic area, created profiles and lot layout, road profiles, street layout, road widening and well locations
	Oak Hill Drainage – Profiled box culvert
	Leisure Living Estates – Utllity profiles
	Huyett Road Goodyear – concept plat, utility plan and profile
	The Berkeley Associates Office - Concept plan
	Mockingbird – Minor subdivision
	Eco-Lab IWTP Upgrade – Define site data
	Fed Ex Smart Post – Site plan, pricing for barriers and parking cable

☐ Washington Heights, Section 1 – 20 single family residential lots served by public utilities,

# Kurt Newbrough, P.S. Partner / Field Services Supervisor



Mr. Newbrough has extensive knowledge in all aspects of surveys. He is experienced in various types of surveys including, but not limited to boundary, topographical, construction layout and GPS for both public and private clientele. Survey projects are performed for each of the Resource Engineering Group companies' public and private clientele, as well as on an independent contract basis.

Mr. Newbrough is a Registered Professional Surveyor and holds the elected position of County Surveyor for Harrison County, West Virginia.

# **EDUCATION**

Surveying

John Tyler Community College, Chester, Virginia United Career Center, Clarksburg, West Virginia

# REGISTRATIONS

Professional Land Surveyor, State of West Virginia Certification, OSHA Hazardous Waste Operations and Emergency Response Center Certification, U.S. Department of Labor/Mine Safety and Health Administration

# **AFFILIATIONS**

West Virginia Association of Land Surveyors American Congress on Surveying and Mapping

REPRESENTAT	IVE PROJECTS
Construction L	avout

■ William A. Bruce, AIA; Food Lion Stores

R	EPRESENTATIVE PROJECTS	B	oundary Surveys
C	onstruction Layout Fairmont State University; Various Projects Associated with the 10-Year Infrastructure Improvement Master Plan City of Bridgeport; Charles Pointe Development	00 00	WV National Cemetery Fairmont State University; Various Projects Associated with the 10-Year Infrastructure Improvement Master Plan Town of Moorefield; North and South Levee Areas US Army Corps of Engineers Flood Control USARC Sites US Department of Justice; FBI Fingerprint
	Mid-Atlantic Storage System, Incorporated		Identification Complex Hardy County Rural Development Authority
To	pographical Surveys	-	20.0
	West Virginia Department of	GF	PS Surveys
	Transportation/Division of Highways	u	US Army Corps of Engineers, Baltimore
	Harrison County Board of Education	_	District
	Gandee and Partners; Huntington Summit		Benatech Associates
	High School		IDG. Incorporated

# **AARON DENHAM**

# Construction Management and Materials Testing



Engineering Specialization

<u>SUMMARY OF EXPERIENCE</u>
Mr. Denham joined Thrasher Engineering in 2000 and serves as Field Supervisor for the firm. Mr. Denham is responsible for construction management, inspection and materials testing for highway, airport, site development, structural and public utilities projects.

☐ Fairmont State University Level V Certification – Transportation Engineering Technologist –

# **EDUCATION**

☐ B.S. Civil Engineering Technology, 1999 – Fairmont State University

# **CERTIFICATIONS**

	WVDOH Compaction Inspector
Ğ	WVDOH Concrete Inspector/Technician
ö	WVDOH Aggregate Sampling Inspector
	WVDOH Aggregate Sampling Inspector  WVDOH Aggregate Technician/Inspector
	WVDOH Bituminous Inspector/Technician
	WVDOH Bitanimous inspector/rechincian WVDOH Radiation Safety
	Troxler Basic Safety – Nuclear Compaction Gauge
REPR	RESENTATIVE PROJECT EXPERIENCE
***************************************	Army Corp of Engineers, Tygart Dam
	Jackson County Airport
	Benedum Airport Authority 2001 Master Plan
	Benedum Airport Authority 2002 Master Plan
ū	Benedum Airport Authority 2003 Master Plan
	Benedum Airport Authority, 2004 Master Plan
	Ruby Memorial Hospital NE Addition
	Health Science Learning Center
	WV National Cemetery Expansion
	Fairmont State University
	Institute for Scientific Research
	I-68 Welcome Center
	Stockmeier Urethanes
	Fairmont State University Squibb Wilson Boulevard Demolition and Parking Lots; Lead
	Inspector & Testing
	Fairmont State University Renovation; Testing
	City of Pleasant Valley Sidewalk Project; Lead Inspector & Testing
	WVDOH South High Street Bridge
	Wheeling Route 2 Bypass
	Lake Floyd Dam
	Baker Dam Site 10
	City of Bridgeport 279 By-Pass
	Mon-Fayette Expressway
	WVDOH Meadowbrook Road
	Fetterman Bridge

# REPRESENTATIVE EXPERIENCE

Thrasher Engineering offers significant experience in open drainage and sediment and erosion projects in addition to abandoned mine lands projects, covering a broad range of expertise. In the following section are examples of our experience in each of these areas related to the **Pageton (Lambert) Portals** design project.

# ABANDONED MINE LAND PROJECTS

# WV DEP ABANDONED MINE LANDS – ANGLIN'S RUN #1 AND ROARING CREEK STREAM RESTORATION PROJECTS

Client:

WV DEP

Office of Abandoned Mine Lands and Reclamation

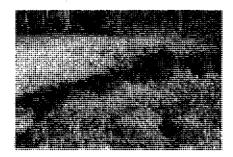
304-926-0485

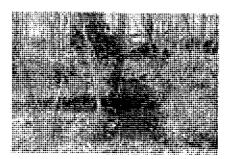
# **Anglin's Run #1 Barbour County**

This area includes a total of eight (8) collapsed mine portals with at least 5 of them having discharges ranging from 1 to 10 gpm. Total flows were estimated to be between 25 and 30 gpm. Thrasher Engineering's preferred scope and preliminary plans for this project include construction of an access road into the site, excavation and wet seal of at least eight (8) deep mine portals and the re-grade and fill of subsidence sinkholes. To carry water safely off site, drainage control channels, conveyance pipe and under drain will be constructed. All areas disturbed by construction will be soil covered, conditioned and re-vegetated.

# Roaring Creek Stream Randolph County

This project involves the elimination of subsidence depressions, the closure of open portals and the treatment of AMD. The Roaring Creek Watershed was heavily deep mined and surfaced mined prior to 1977. The project area consists of 3 open and 3 closed portals discharging AMD, AMD seeps along the unnamed tributary and an area of subsidence, which drains surface water into the mine workings. AMD flow from the deep mine portals ranges from 10 gpm to 100 gpm with PH ranging from 3.1 to 5.0. The seeps along the UNT showed an average PH of 3.3. Construct and rehabilitate access roads to the sites. Install wet seals at the portal locations (4 Portals total). Thrasher Engineering's preliminary plans include re-grading the subsidence area to prevent surface water from entering the mine workings, and installing an emergency spillway on the existing pond which will be designed to handle the additional flow.







# WV DEP ABANDONED MINE LANDS – AMHERSTDALE (LOGAN COUNTY) PRE-SETTLING BASIN AND PRE-TREATMENT FACILITY PROJECT

Client:

WV DEP

Office of Abandoned Mine Lands and Reclamation

304-926-0485

**Project Description:** The AML affected area is located in Logan County on CR 16, west of the city limits of Man, a distance of approximately 12.6 Miles.

The scope of the project is the design and construction of a pre-settling basin and pre-treatment system to remove metals and turbidity from the existing water sources, allowing the water existing treatment facility to utilize the surface and groundwater.

The scope of services Thrasher Engineering provided for this project included:

Survey, supervision of subsurface investigation, environmental review, preparation of design, drawings, development of construction documents.

# WV DEP ABANDONED MINE LANDS - RAGLAND (MINGO COUNTY) WATER LINE EXTENSION PROJECT

Client:

WV DEP

Office of Abandoned Mine Lands and Reclamation

304-926-0485

**Project Description:** The AML affected area is located in the Midwestern portion of Mingo County. The area is approximately 2.6 square miles The scope of services Thrasher Engineering provided for this project included: survey, supervision of subsurface investigation, environmental review, design, development of construction documents. Upon construction, Thrasher will provide construction management services.

# ACID MINE DRAINAGE / COAL COMPANY EXPERIENCE

# Martinka Water Treatment Plant

Client: Martinka Coal

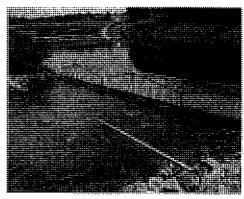
Mr. Gary Timms

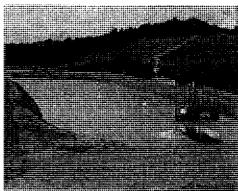
Water Treatment Plant Supervisor

Fairmont, WV 304-366-5516

# **Project Cost: \$6.5 Million**

This project consisted of the design of a 17.3 MGD Water Treatment Plan to blend mine borehole water with acid mine drainage; the plan removes iron (1000 mg/l (ferric hydroxide) to less than 1 mg/l.





# The plant design included:

- Aeration Blending and Stripping Carbon Dioxide
- □ Feed Hydrogen Peroxide Shifts chemical equilibrium for utilization of naturally calcium carbonate for neutralization
- □ Coagulation/Flocculation Three (3) stage tapered flocculation with axial flow propeller mixers and variable frequency drives
- □ Sedimentation Six (6) settling ponds with **ferric hydroxide** sludge removal and underground injection wells
- □ Polishing Pond Sodium hexamataphosphate for calcium stabilization.

Dayton Carpenter, P.E., DEE, Project Engineer was rewarded the following for the project:

- □ 2002 WV ACEC Gold Award Engineering Excellence
- 2002 WV Manufacturer's Association Environmental Leadership Award for Innovative Technology

# <u>SITE DEVELOPMENT PROJECTS – SEDIMENT AND EROSION MEASURES</u>

Harrison County Business and Technology Park
Robert C. Byrd Industrial Park – Hardy County
White Oaks Business Park – Harrison County

Thrasher Engineering provided survey, site planning, and engineering design services for each of these business/industrial parks which were developed on abandoned mine lands. The design of each project included plans for landslide / erosion and sediment control within grading plans.







# Mingo County Wood Products Industrial Park, Mingo County, West Virginia

Client:

Mingo County Redevelopment Authority

Mike Whitt, Executive Director

304-235-0042

**Project Description:** This project consisted of the development of conceptual layout and final design drawings for the park. The work consisted of drainage, sediment, erosion measures, and on-site utilities including water and sanitary sewer, along with the design and permitting of a 12,000 gpd wastewater treatment plant. Also included in this project was a roadway design conforming to WV

Department of Highways specifications and criteria. Construction management services were also provided.

# Indian Ridge Industrial Park / McDowell County Prison

Client:

Federal Bureau of Prisons

202-514-6461

McDowell County Commission

304-436-8548

**Project Description:** The objective of this project was to push back an existing highwall and enlarge the flat area on the McDowell County's Indian Ridge Industrial Park, a



portion of which is being used to accommodate a Federal Prison. Thrasher Engineering is now providing the site development engineering services for that facility. This project consisted of the design, bidding, and construction management for the preparation of an industrial park/federal prison site. The construction involved moving 20,000,000 CY of earth to create approximately 250 relatively flat acres for development. Inclusive in our scope of work was site grading, sediment and erosion control, stream relocations, and wetland mitigation. This work involved laying back an existing highwall and placing the excavated material into a nearby valley to increase the developable acreage of the site. The valley fill serves as a buffer and will be used for non-structural uses.

# **Belington Industrial Park**

Client:

**Barbour County** 

Office for Economic Development

304-456-1225

This project consisted of the development and conceptual layout and final design drawings for the park. The work consisted of on-site utilities including water and sanitary sewer.

Specifically, this project included:

- □ 8,000 LF of water line,
- ☐ 2,700 LF of gravity sewer line.



Manholes and Fire hydrants.

Additionally, this project included an access road conforming to WV DOT/Department of Highways specifications and criteria, earthwork for building site preparation and storm water detention. Construction management services were also provided.

# West Virginia National Cemetery

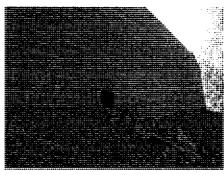
Client:

U.S. Department of Veterans Affairs Peter Fernandez, National Cemetery

Administration

Carter VanDyke Associates

215-345-5053



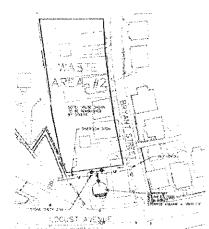
**Project Description:** The project consisted of the planning, design and bidding for the expansion of the WV National Cemetery. The scope of the work included site utilities, storm sewers, roads, sidewalks, retaining walls, pre-cast concrete crypt burial areas, site grading and sediment and erosion control. Construction management and survey services were also provided.

# **Fairmont State University**

Client:

Fairmont State University Dr. Dan Bradley, P.E. President

304-367-4000



Thrasher Engineering is providing civil engineering services throughout the Fairmont State University



campus within the scope of FSU's 10-year \$10 million master plan for infrastructure improvements. This portion of the project included storm water management during and after construction. During the construction phase erosion and sediment control was contained by installing silt fence, water barriers, temporary sediment traps, inlet protection, diversion ditches and utility matting. The final site improvements contain swales, ditches, vegetation, landscaping and culverts to control the storm water and limit the pollution from the site. Ditches are protected from

erosion and all unpaved areas are stabilized with vegetation.

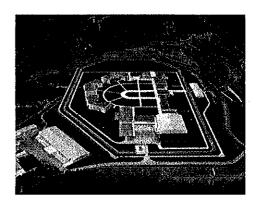
# Glenville Correctional Institution, Gilmer County, West Virginia

Client:

Federal Bureau of Prisons

202-514-6461

**Project Description:** This project consisted of the design/build of a U.S. Correctional Facility. Inclusive in our scope of work were the site utilities (sewer, water, stormwater management gas) site grading, sediment & erosion control, layout of facilities, on site roads and parking, various site elements and oversight during the construction phase.



# Canaan Federal Prison, Scranton, Pennsylvania

Client:

Federal Bureau of Prisons

202-514-6461.

**Project Description**: Thrasher Engineering served as a Team Member on this design-build project of US Penitentiary and Federal Prison Camp. The scope of services included sewer, water, storm water management and gas utilities, site grading, sediment and erosion control, relocation of a township road, layout of the facility and



oversight during construction. The drainage of this project required the design of a storm water detention pond.

# West Virginia Division of Highways, Harrison County, West Virginia

Client:

West Virginia Division of Highways

304-558-2830

Total Project Cost: \$1,200,000

**Project Description:** This project consisted of developing construction drawings and right-of-way documents for a new storm drain system along Old Bridgeport Hill. The existing storm drain system was 25 to 30 feet deep and was collapsing in several areas; therefore, a new system of inlets and pipes were designed to collect surface water.

# PROJECT APPROACH

In order to develop an understanding of the WV DEP's needs for this project, Thrasher Engineering, Inc. studied the information provided in the RFQ and visited the site. Based upon our findings, we have developed the following project approach to demonstrate our technical abilities and straight forward method of design and construction.

This project approach is a general approach that will be used on any WVDEP reclamation project and may need to be modified depending on the existing information that is available for the specific project. Also, some steps may not be needed on every project.

**Step #1 Obtain adequate mapping.** The limits of construction will be flown and digitally mapped or, if the area is small enough, survey crews will field survey the area. Thrasher will then provide 1"=50' scale mapping with 2' contours. Spot elevations and critical cross sections may be completed in the field if necessary to make tie-ins.

**Step #2 Design the project.** Thrasher will work closely with the WVDEP in designing the project. Field reviews will be conducted to determine the most cost effective method to be used to reclaim the area. A preliminary design based on the field reviews will be submitted to the WVDEP. After receiving comments or corrections, Thrasher will submit the final plans, specifications and design report. The design report will consist of the bore logs, piezometer elevations, quantity calculations, right of entry forms and any other assumptions that were made during the design.

**Step #3 Prepare for construction.** Thrasher will also set up reference points, benchmarks and control points outside of the construction limits so the contractor will be able to construct the project in the future. Thrasher will complete any permits, right of ways, and easements that are necessary to construct the project. The project manager and engineer will attend the pre-bid meetings to answer any questions that contractors may have about the design.

**Step # 4 Construct the project.** The project manager will be available during construction to answer any questions the contractor or inspector may have. Thrasher inspectors that are certified by the State of WV are available to be used if the WVDEP requests this service.

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C ENVIRONMENTAL	YEAR)	BUSINESS ADDRESS D., CLARKSBURG, WV	TYPE OWNERSHI Individual Partnership	RSON IN CHARGE/ NO. AML DESIGN / KENNETH P. MORAN, P.E., VICE .7601 / JONATHAN CARPENTER, MANA	NAME, TITLE RANDY WATSO DELLER, P. D. M. RILEY, E P. RILEY, EEL E. FERRE		ENGINEERS  - MECHANICAL ENGINEERS - MINING ENGINEERS 3 PHOTOGRAMMETRISTS - PLANNERS: URBAN/REGIONAL - SANITARY ENGINEERS - SOILS ENGINEERS - SOILS ENGINEERS 2 SPECIFICATION WRITERS  PLONAL ENGINEERS IN PRIMARY OFFICE: 12  provide supporting documentation that qualich.	YES   NO NOT A
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W AML C	PROJECT NAME Pageton (Lambert) Portals DEP 15063	1. FIRM NAME THRASHER ENGINEERING, INC	4. HOME OFFICE TELEPHONE 304-624-4108	7. PRIMARY AML DESIGN OFFICE: 30 COLUMBIA BLVD, CLARKSB 300 ASSOCIATION DRIVE, CH	PRINCIPAL OF asher, P.E. Moran, P.E. Jgh, P.S. —	9. PERSONNEL BY DISCIPLINE	24 ADMINISTRATIVE 3 ARCHITECTS	10. HAS THIS JOINT-VENTURE WORKED

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- WY DEP FOR BOTH DRAINAGE AND PORTAL AML PROJECTS AS WELL AS FOR WATER LINE AND WATER TREATMENT PLANT PROJECTS RELATED TO AML. NUMEROUS PROJECTS INVOLVING LAND REMEDIATION, STORM WATER DRAINAGE, SLIP REPAIR, MASS GRADING IN ENGINEERING HAS PERFORMED ENGINEERING DESIGN SE Reclamation Engineering Remediation/Mine Is your firm experienced in Abandoned Mine Land Description and Number of Project: THRAS. RELATION TO SITE DEVELOPMENT AND HIGHWAY PROJECTS. TO THE
- THRASHER ENGINEERING MAINTAINS AN AASHTO CERTIFIED MATERIALS TESTING AND ANALYSIS LAB AT ITS CLARKSBURG AND BECKLEY OFFICES. SOIL ANALYSIS EXPERIENCE IS SPECIFICALLY IN Is your firm experienced in Soil Analysis? Description and Number of Projects: GRADATIONS AND CLASSIFICATION. <u>.</u>
- WEST VIRGINIA DEPARTMENT OF HIGHWAYS AND WATER LINE EXTENSION PROJECTS, THRASHER ENGINEERING HAS EXTENSIVE EXPERIENCE Description and Number of Projects: THROUGH OUR WORK IN THE PLANNING AND DESIGN OF BRIDGES FOR THE IN HYDROLOGY. WE ALSO HAVE EXTENSION EXPERIENCE IN HYDRAULIC MODELING FOR WATER AND WASTEWATER PROJECTS THROUGHOUT Is your firm experienced in hydrology and hydraulics? WEST VIRGINIA. ပ
- produce its own Aerial Photography and Develop Contour Mapping? Description and Number of Projects: Does your firm YES Descripti . D
- WHICH IS AN AFFILIATE COMPANY OF INC. THRASHER ENGINEERING INC. THROUGH THE RESOURCE ENGINEERING GROUP HOLDING COMPANY. INCLUDING PENTREE, WE UTILIZE THE SERVICES OF NUMEROUS FIRMS, NO NO
- Description and Number of Projects: THRASHER ENGINEERING HAS DESIGNED OVER 100 WATER LINE EXTENSION AR THE PAST 20 YEARS OF BUSINESS. PROJECTS INCLUDE LINES, BOOSTER STATIONS, WATER TREATMENT PLANTS, (Include any experience your firm has in STORAGE FACILITIES. MANY OF THESE PROJECTS ARE IN AREAS WITH AML AFFECTED WATER evaluation of aquifer degradation as a result of mining. Is your firm experienced in domestic waterline design? YES PROJECTS IN ь. П
- Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?
- RELATED SPECIFICALLY TO ACID MINE DRAINAGE AND ABATEMENT, BOTH OF WHICH ARE LOCATED IN BARBOUR COUNTY, WEST VIRGINIA. THE CHARLESTON WV BRANCH OF OUR COMPANY DESIGNED AN AWARD WINNING WATER TREATMENT PLANT FOR MARTINKA MINES IN MARION Description and Number of Projects: TEI RECENTLY DESIGNED TWO RECLAMATION PROJECTS FOR WVDEP COUNTY, WEST VIRGINIA TO TREAT DRAINAGE

R AML PRO	YEARS OF EXPERIENCE	KIENCE: YEARS OF AML RELATED DESIGN YEARS OF DOMESTIC EXPERIENCE: 17 EXPERIENCE: 24	serves as Vice President and Chief Operations Officer and	lies and design of public utility and site development projects. ly, Mr. Moran has extensive experience in all aspects of conjunction with projects.	Engineering Technology, 1983 - Fairmont State University	REGISTRATION (Type, Year, State)  □ Registered Professional Engineer (PE), State West Virginia #11309	☐ Registered Professional Engineer (PE), State Virginia#0102021855	☐ Registered Professional Engineer (PE), State Ohio #64412	☐ Professional Land Surveyor (PS), State of West Virginia#1333	RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete	YEARS OF EXPERIENCE	EXPERIENCE: YEARS OF AMI RELATED DESIGN YEARS OF DOMESTIC EXPERIENCE: 16 EXPERIENCE: 16	experience in all aspects of engineering with specific emphasis outs. Mr. Biller joined Thrasher Engineering in 1999 and is a ng, Mr. Biller is responsible for WV DEP AML project and public airports, highways, roads and bridges. As Project Manager for knowledge of state and federal building standards.		REGISTRATION (Type, Year, State)  Considered Professional Engineer(PE), State of West Virginia #13620  Constructed Professional Engineer (PE), State of Pennsylvania #PE056012E  Constructed Professional Engineer (PE), State of Ohio #64594
13. PERSTORY STATEMENT OF PRINCIPALS AND ASSOCIATES datt keep to essentials)	NAME & TITLE (last, First, Middle Int.)	MORAN, KENNETH P.	Mr. Moran joined Thrasher Engineering in 1991 and currently Chief Engineer.	Mr. Moran is responsible for management feasibility studies for local state, federal and private clients. Additionally, engineering and with funding and regulatory agencies in conj	ialization) B.S., Civil	MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS  Friendship Lodge No.56 A.F. & A.M.  W. Society of Professional Engineers	Member of American Society			13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES data but keep to essentials)		BILLER, CHADWICK D. P.E.	Brief Explanation of Responsibilities: Mr. Biller has experience in all on site development, highways, roads, bridges, and airports. Mr. Bille partner of Thrasher Engineering. For Thrasher Engineering, Mr. Biller and private site development projects, specializing in airports, highwall of the firm's WVDOT/DOH projects, he has extensive knowledge of st	EDUCATION (Degree, Year, Specialization:  B.S., Civil Engineering, 1992 - West Virginia University	MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS  American Society of Civil Engineers  Society of American Military Engineers  National Society of Professional Engineers

SPONSIBLE FOR AML PROJECT DESIGN (Furnish compl	YEARS OF EXPERIENCE  S: YEARS OF AML RELATED DESIGN YEARS OF DOMESTIC EXPERIENCE: 7  EXPERIENCE: 7  EXPERIENCE: 7	itor joined Thrasher Engineering in 2005 and serves as Project Manager and strience in residential and commercial site development projects, utilizing is street and lot layout, street profiles, extensions of public sewer and ter management, erosion and sediment control plans, and NPDES permitting. operations within The Berkeley Associates, directing administrative on ensure successful completion of projects covering site development, il services.	sity, 2003	REGISTRATION (Type, Year, State)	RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete	YEARS OF EXPERIENCE  E: YEARS OF AMI RELATED DESIGN YEARS OF DOMESTIC  EXPERIENCE: 23  EXPERIENCE: -	and serves as Environmental Manager for the firm. Prior to or a major coal firm. She has more than 20 years experience atory programs and reporting requirements in multiple states in environmental engineering, geology and hydrology.		of Science- Geology	REGISTRATION (Type, Year, State)	☐ Licensed Professional Geologist (LPG), Commonwealth of Pennsylvania ☐ Certified Professional Geologist (CPG), State of West Virginia
13. PER. I HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATE. SI data but keep to essentials)	NAME & TITLE (Last, First, Middle Int.)  YEARS OF AML DESIGN EXPERIENCE:  NESTOR, MICHAEL - PROJECT ENGINEER  2	Brief Explanation of Responsibilities Mr. Nestor joined Thrasher Engineering Engineer. Mr. Nestor has a wide range of experience in residential and commer all aspects of infrastructure design including street and lot layout, street water systems, storm water drainage, storm water management, erosion and sedi In addition, Mr. Nestor oversees all general operations within The Berkeley A staff, CAD technicians, and staff engineers to ensure successful completion o surveying, material testing, and environmental services.	EDUCATION (Degree, Year, Specialization)  □ B.S. Civil Engineering Technology - Fairmont State University,	MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS  American Society of Civil Engineers  Eastern Panhandle Home Builders Association	13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESI data but keep to essentials)		Brief Explanation of Responsibilities Sheirl Fletcher joined Thrasher Engineering, Inc. in 2007 and serves as E joining Thrasher, Sheirl served as Environmental Manager for a major coal and brings comprehensive knowledge of environmental regulatory programs to our clients' projects, along with technical expertise in environments	EDUCATION (Degree, Year, Specialization)	☐ B.S., West Virginia University, Morgantown, WV - Bachelor of	MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	

# 14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AME DESIGN SERVICES

Thrasher Engineering, Inc. will design work for AML utilizing one of the largest networks of computer aided design (CAD) equipment, software and trained personnel in the State of West Virginia.

locations. This will allow work designed for AML to be prepared and updated at the office location that best meets the Connected through a Virtual Private Network, our CAD staff has the ability to share necessary plans among our needs of the scope of services.

Additionally, equipment includes 10 large format (size E) plotters and 5 large format plotter / scanners.CAD plans are prepared by both dedicated CAD employees and by staff engineers and engineering technicians in each of the firm's AutoCAD Landdesktop 2008 and Microstation V8 software is utilized at 48 CAD stations throughout our locations.

Thrasher Engineering, Inc. also utilized top-of-the line survey equipment. Our survey work is accomplished with global positioning systems (GPS) and electronic distance measuring (EDM) survey stations with data gathering capabilities. This equipment includes: The equipment used to complete survey services for AML projects includes:

- Leica Geosystem System 500 GPS
- Leica Ski Post Processing Software
- · Topcon G600 Total Station Instrument
- Leica 303 Total Station Instrument
- Leica 307 Total Station Instrument
- Leica 403 Total Station Instrument
- Leica 405 Total Station Instrument Lecia 407 Total Station Instrument
- Lecia 703 Total Station Instrument

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GINEER OF RECORD: SITE DEVELOPMENT PROJECTS	
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}	NATURE OF YOUR FIRM'S RESPONSIBILITY	ENGINEERING DESIGN FOR PORTAL SEALING, DRAINAGE AND RECLAMATION	SITE DEVELOPMENT DESIGN (LAND PLANNING, GRADING, UTILITIES) SURVEY, CONST. MGT, MATERIALS TESTING	SITE DEVELOPMENT DESIGN (LAND PLANNING, GRADING, UTILITIES) SURVEY, CONST. MGT, MATERIALS TESTING	SITE DEVELOPMENT DESIGN (LAND PLANNING, GRADING, UTILITIES) SURVEY, CONST. MGT, MATERIALS TESTING	DESIGN, SURVEY, CONSTRUCTION MGT, INSP AND TESTING - SIDEWALKS PHASE III	SITE DEVELOPMENT DESIGN (LAND PLANNING, GRADING, UTILITIES) SURVEY, CONST. MGT, MATERIALS TESTING
	NAME AND ADDRESS OF OWNER	WV DEP- DEPARTMENT OF AME 601 57th Street, SE Charleston, WV 25304	HIGH TECH CORRIDOR DEVELOPMENT, LLC MR. JACK KEELEY PO BOX 1532 CLARKSBURG, WV 26302	GARRETT COUNTY EDA 203 SOUTH 4TH STREET COURTHOUSE ROOM 208 OAKLAND, MD 21550 301-334-1921	RITCHIE COUNTY ECONOMIC DEVELOPMENT AUTHORITY 217 WEST MAIN STREET HARRISVILLE, WV 26362	CITY OF PLEASANT VALLEY, 2340 KINGMONT ROAD PLEASANT VALLEY, WV 26554	BENEDUM AIRPORT AUTHORITY JAMES R. GRIFFITH, AIRPORT MGR. 2000 AVIATION WAY BRIDGEPORT, WV
)	PROJECT NAME, TYPE AND LOCATION	ANGLIN'S RUN AND ROARING CREEK STREAM AME RECLAMATION RARBOUR AND RANDOLPH COUNTIES, WV	WHITE OAKS BUSINESS PARK SITE DEVELOPMENT AND UTILITIES HARRISON COUNTY, WV	MCHENRY BUSINESS PARK SITE DEVELOPMENT AND UTILITIES GARRETT COUNTY, MD	RITCHIE COUNTY BUSINESS PARK SITE DEVELOPMENT RITCHIE COUNTY	CITY OF PLEASANT VALLEY SIDEWALKS PROJECT MARION COUNTY, WV	NORTH CENTRAL WV ALRPORT HARRISON COUNTY, WV VARIOUS - HANGERS /STORM WATER

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED-INGINEER OF RECORD: WATER TREATMENT AND DISTRIBUTION PROJECTS

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
CHESTNUT RIDGE PSD	B	FEASIBILITY STUDY,		
BARBOUR/PRESTON EXTENSION		DESIGN, FUNDING AND		
BARBOUR COUNTY, WV			\$9,500,000	30%
	PHILIPPI, WV 26416	UMENTS		
		SERVICES OF SURVEI AND INSPECTION.		
JESSICA LYNCH WATER LINE	TOWN OF ELIZABETH	FEASIBILITY STUDY,		A LIBERT DE LES CONTRACTOR DE LA CONTRAC
EXTENSION	200 BEVERLY STREET	DESIGN, FUNDING AND		
WIRI COUNTY, WV		PERMIT APPLICATIONS,	\$3,600,000	808
	ELIZABETH, WV 26143	CONTRACT DOCUMENTS, FIELD		
		SERVICES OF SURVEY AND		
		INSPECTION		
SOUTHWESTERN PSD	SOUTHWESTERN WATER PUBLIC	FEASIBILITY STUDY,		
WATER LINE EXTENSION /	SERVICE DISTRICT	DESIGN, FUNDING AND		30%
REPLACEMENT	P. O. BOX 98	PERMIT APPLICATIONS,	\$10,430,000.	
	FLEMINGTON, WV 26347	CONTRACT DOCUMENTS, FIELD		
		SERVICES OF SURVEY AND		
		INSPECTION		
HAMRICK PSD	HAMRICK PSD	FEASIBILITY STUDY,		
MOORE / PORTERWOOD	PO BOX 228	DESIGN, FUNDING AND		
EXTENSION	HENDRICKS, WV 26271	PERMIT APPLICATIONS,	\$1,100,000.	25%
TUCKER COUNTY, WV		CONTRACT DOCUMENTS, FIELD		
•		SERVICES OF SURVEY AND		
		INSPECTION		
TINCOLN COUNTY PSD	LINCOLN PSD	FEASIBILITY STUDY,		
WATER LINE EXTENSION	P.O. BOX 38	DESIGN, FUNDING AND	\$6,920,000.	25%
PROJECTS	240 LITTLE COAL RIVER RD.	PERMIT APPLICATIONS,		
	ALUM CREEK, WV 25003	CONTRACT DOCUMENTS, FIELD		
		SERVICES OF SURVEY AND		
		INSPECTION		
POCAHONTAS COUNTY PSD	POCAHONTAS COUNTY PSD	FEASIBILITY STUDY,		
WATER LINE REPLACEMENT	HC 63 BOX 122	DESIGN, FUNDING AND	\$10,456,000.	
DURBIN / BARTOW/FRANK	FRANK, WV 24920	PERMIT APPLICATIONS,		25%
		CONTRACT DOCUMENTS, FIELD		
		SERVICES OF SURVEY AND		
		INSPECTION		
	SALEM, CITY OF			808
CITY OF SALEM, WEST	P.O. BOX 352	DESIGN, FUNDING AND	\$1,500,000.	
VIRGINIA	229 W. MAIN	PERMIT APPLICATIONS,		
WATER LINE REPLACEMENT	SALEM, WV 26426	CONTRACT DOCUMENTS, FIELD		
		SERVICES OF SURVEY AND		
TOTAL NUMBER OF PROJECTS:	×		TOTAL ESTIMATED CONSTRUCTION COSTS:	
ADDITIONAL CURRENILY IN PRELIMINARY / DESIGN		OK CONSTRUCTION   45Z, 65U, 000, 00	532,630,000.00 KEFKESENIED ESTIMATED COST OF ALL JOBS APPROXIMATELY \$150.000.000	5150.000.000.00
FIRST				

TYPE AND   NAME AND ADDRESS OF NAMER   RESPONSIBILITY   STOCK					
CITY OF KINGHOOD   PRASIBILITY STUDY,	PROJECT NAME, TYPE AND LOCATION	RESS	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
TEMERADOD, WV 26537   PERSONAL AND SECURIOR SE	ا ا	CITY OF KINGWOOD	FEASIBILITY STUDY,		
THE CHARLES ON COUNTY   TRANSTICATIONS		KINGWOOD, WV 26537	DESIGN, FONDING AND PERMIT APPLICATIONS.	\$10.000.000	40 %0
THE CREATER HARRISON COUNTY   PEASIBILITY STUDY,	KINGWOOD, WV		CONTRACT DOCUMENTS, FIELD		
TY GREATER HARLSON COUNTY   INSPECTION			SERVICES OF SURVEY AND		
PEG	THE TOTAL TOTAL	THE TOTAL THE PERSON NAMED IN COLUMN THE PERSON	TASFECTION		
ENOUGHER   PREMIUT AFTER   PRIED	GREATER HARKLSON COUNTY DSD	GREATER HARKISON COUNTY			
NEST MILEORD, WY 26451   CONTRACT DOCUMENTS, FIELD	SE		PERMIT APPLICATIONS.	\$6.000.000	o U
II   TENNERTON PSD	HARRISON COUNTY, WV	MILFORD, WV	•		ກໍ່
INTERCECTOR   INTERCECTION			N.		
III   TENNETURE NED			INSPECTION		
ION   188 PAYETTE ST.   DESIGNA, FUNDING AND	TENNERTON PSD PHASE III	TENNERTON PSD	FEASIBILITY STUDY,		
ERECKIANNON, WW 26201   CONTEACH DOOR FEELD	SANITARY SEWER EXTENSION	188 FAXETTE ST.	DESIGN, FUNDING AND	1	
CONTEACT DOUGHENTS, FIELD	UPSHUR COUNTY, WV	BUCKHANNON, WV 26201		\$6,800,000	U Se
NSERCITION   SERVICES OF SURVEY AND				•	
POCAHONTAS COUNTY PSD   ERASIBILITY STUDY,			٠.		
HC 63 BOX 122   DESIGN, FUNDING AND	POCAHONTAS COMMY DSD		FEASTRIT, THY SMITHY		
FRANK, WV 24920   PERMIT APPLICATIONS, S11,600,000	WWTP AND COLLECTION		DESIGN, FUNDING AND		& 100
CONTRACT DOCUMENTS, FIELD   SERVICES OF SURVEY AND	SYSTEM	FRANK, WV 24920	PERMIT APPLICATIONS,	\$11,600,000	) )
ENLARGED HEPZIBAH  ENLARGED HEPZIBAH  ENASTEGIAN, FUNDING AND  HEPZIBAH, WV 26369  HEPZIBAH, WV 26369  CONTRACT DOCUMENTS, FIELD  SERVICES OF SURVEY AND  HEPZIBAH, WV 26369  CONTRACT DOCUMENTS, FIELD  E.O. BOX 350  TAD, WV 25201-0350  ERRITT APPLICATIONS,  DISTRICT  P.O. BOX 350  CONTRACT DOCUMENTS, FIELD  SERVICES OF SURVEY AND  HEPZIBAH, WV 26501-0350  CONTRACT DOCUMENTS, FIELD  SERVICES OF SURVEY AND  HEPZIBAH, WV 26508  TAD, WV 26501-0350  CONTRACT DOCUMENTS, FIELD  SERVICES OF SURVEY AND  HORGANTOWN, WV 26508  ERRITT APPLICATIONS,  CONTRACT DOCUMENTS, FIELD  SERVICES OF SURVEY AND  HORGANTOWN, WV 26508  SERVICES OF SURVEY AND  HNSPECTION  CONTRACT DOCUMENTS, FIELD  SERVICES OF SURVEY AND  HNSPECTION  TOTAL ESTIMATED  TOTAL ESTIMATED  FOOTBLET SPROTFOTS APPROXIMATELY \$150,000.000.000.000.000.000.000.000.000.0	POCAHONTAS COUNTY, WV				
ENLARGED HEPZIBAH   FEASIBILITY STUDY,			SERVICES OF SURVEY AND		
IN   DEAMER H   DESIGN, FUNDING AND   HEPZIBAH, WY 26369   PERMIT APPLICATIONS,			INSPECTION		
DESIGN, FUNDING AND   HEPZIBAH, WV 26369   PERMIT APPLICATIONS,   S13,400,000	_	ENLARGED HEPZIBAH	FEASIBILITY STUDY,		
HEPZIBAH, WV 26369   PERMIT APPLICATIONS,   \$3,400,000     CONTRACT DOCUMENTS, FIELD   SERVICES OF SURVEY AND   INSPECTION   DESIGN, FUNDING AND   P.O. BOX 350   PERMIT APPLICATIONS,   \$13,600,000.     TAD, WV 25201-0350   PERMIT APPLICATIONS,   \$13,600,000.     TAD, WV 25201-0350   PERMIT APPLICATIONS,   \$13,600,000.     CANYON PSD   PERMIT APPLICATIONS,   \$6,500,000.     TABLEST   PERMIT APPLICATIONS,   \$6,500,000.     CANYON PSD   PERMIT APPLICATIONS,   \$6,500,000.     CONTRACT DOCUMENTS, FIELD   SERVICES OF SURVEY AND   INSPECTION   TOTAL ESTIMATED CONSTRUCTION COSTS: \$70,300,000.     TOTAL ESTIMATED CONSTRUCTION COSTS: \$70,300,000.     TOTAL ESTIMATED CONSTRUCTION COSTS: \$70,300,000.     TOTAL ESTIMATED CONSTRUCTION COSTS: \$70,000.     TOTAL ESTIMATED CON	SANITARY SEWER EXTENSION		DESIGN, FUNDING AND		958
MALDEN PUBLIC SERVICE   ERASIBILITY STUDY,   DISTRICT   P.O. BOX 350   PERMIT APPLICATIONS,   TAD, WV 25201-0350   SERVICES OF SURVEY AND   INSPECTION   RAD, WV 25201-0350   SERVICES OF SURVEY AND   INSPECTION   INSPECTION   EASIBILITY STUDY,   TADING AND   INSPECTION   EASIBILITY STUDY,   TADING AND   INSPECTION   EASIBILITY STUDY,   TADING AND   EASIBILITY STUDY,   TOWNING AND   SERVICES OF SURVEY AND   INSPECTION   SERVICES OF SURVEY AND   INSPECTION   SERVICES OF SURVEY AND   INSPECTION   I	HARRISON COUNTY, WV	¥		\$3,400,000	
MALDEN PUBLIC SERVICES OF SURVEY AND  INSPECTION  DISTRICT  P.O. BOX 350  TAD, WV 25201-0350  SERVICES OF SURVEY AND  INSPECTION  CANYON PSD  INSPECTION  CANYON PSD  DESIGN, FUNDING AND  EASIBILITY STUDY,  12 WICHITA STREET  MORGANIOWN, WV 26508  SERVICES OF SURVEY AND  INSPECTION  CONTRACT DOCUMENTS, FIELD  SERVICES OF SURVEY AND  INSPECTION  TOTAL ESTIMATED CONSTRUCTION COSTS: \$70,300,000.000  TOTAL ESTIMATED STREET  TOTAL ESTIMATED STREET  TOTAL ESTIMATED STREET  TOTAL ESTIMATED STREET STREET STRONGEN STROUTHON COSTS: \$70,300,000.000  TOTAL ESTIMATED STREET STREET STROUTHON COSTS: \$70,300,000.000  TOTAL ESTIMATED STREET STREET STROUTHON COSTS: \$70,300,000.000  TOTAL ESTIMATED STREET STREET STREET STROUTHON COSTS: \$70,300,000.000  TOTAL STREET STREET STREET STREET STROUTHON COSTS: \$70,300,000.000  TOTAL STREET STRE			CONTRACT DOCUMENTS, FIELD		
MALDEN PUBLIC SERVICE DISTRICT DISTRICT P.O. BOX 350 TAD, WV 25201-0350 CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION  CANYON PSD ENAITH APPLICATIONS, 12 WICHITA STREET MORGANTOWN, WV 26508 EMBALT APPLICATIONS, CONTRACT DOCUMENTS, FIELD SERVICES OF SURVEY AND INSPECTION  TOTAL ESTIMATED CONSTRUCTION COSTS: \$70,300,000.000  TOTAL TOTAL ESTIMATED CONSTRUCTION COSTS: \$70,000.000			SERVICES OF SURVEY AND INSPECTION		
DESTRICT	MALDEN PUBLIC SERVICE	MALDEN PUBLIC SERVICE	FEASIBILITY STUDY,		
HERMIT APPLICATIONS	DISTRICT	DISTRICT	DESIGN, FUNDING AND		868
HILTATION  HAY COUNTY, WV  ON PUBLIC SERVICE  CANYON PSD  INSPECTION  ON PUBLIC SERVICE  CANYON PSD  INSPECTION  ON PUBLIC SERVICE  I2 WICHITA STREET  HORGANITOWN, WV 26508  CONTRACT DOCUMENTS, FIELD  SERVICES OF SURVEY AND  INSPECTION  CONTRACT DOCUMENTS, FIELD  SERVICES OF SURVEY AND  INSPECTION  INSPECTION  INSPECTION  INSPECTION  TOTAL ESTIMATED CONSTRUCTION COSTS: \$70,300,000.000  TOTAL SANITRY SEWER PROJECTS APPROXIMATELY 32  HOMAL HORGANIT AND  INSPECTION  TOTAL ESTIMATED CONSTRUCTION COSTS: \$70,000.000	SANITARY SEWER	P.O. BOX 350	PERMIT APPLICATIONS,	\$13,600,000.	
WHA COUNTY, WV  ON PUBLIC SERVICE  CANYON PSD  INSPECTION  ON PUBLIC SERVICE  CANYON PSD  INSPECTION  TARY SEWER UPGRADE  MORGANTOWN, WV 26508  CONTRACT DOCUMENTS, FIELD  SERVICES OF SURVEY AND  INSPECTION  TOTAL ESTIMATED CONSTRUCTION COSTS: \$70,300,000.000  TOTAL SANITRY SEWER PROJECTS APPROXIMATELY 32  HOTAL FOR ALL PROJECTS APPROXIMATELY 32  HOTAL FOR ALL PROJECTS APPROXIMATELY 32		TAD, WV 25201-0350			
ON PUBLIC SERVICE CANYON PSD FEASIBILITY STUDY, RICT 12 WICHITA STREET DESIGN, FUNDING AND 12 WICHITA STREET DESIGN, FUNDING AND STREET DESIGN, FUNDING AND STREET DESIGN, FUNDING AND STREET DESIGN, FUNDING AND SERVICES OF SURVEY AND INSPECTION SERVICES OF SURVEY AND INSPECTION COSTS: \$70,300,000.000  L NUMBER OF PROJECTS: 7 REPRESENTED  L ACTIVE SANITRY SEWER PROJECTS APPROXIMATELY 32  TOTAL ESTIMATED CONSTRUCTION COSTS: \$70,300,000.000			SERVICES OF SURVEY AND		
RICT TARY SEWER UPGRADE TOURITY STUDY, TOTAL SOURTRY OF PROJECTS TO REPRESENTED TOTAL SANITRY SEWER PROJECTS APPROXIMATELY 32  TOTAL STIMATED CONSTRUCTION COSTS: \$70,000,000			INSPECTION		
TARY SEWER UPGRADE  TARY SEWER UPGRADE  TOTAL SANITRY SEWER PROJECTS APPROXIMATELY 32  TOTAL SANITRY SEWER PROJECTS APPROXIMATELY 32  TOTAL STIMATED CONSTRUCTION COSTS: \$70,000.000	CANYON PUBLIC SERVICE		FEASIBLLITY STUDY,		
EXT  NGALIA COUNTY, WV  L NUMBER OF PROJECTS: 7 REPRESENTED  L ACTIVE SANITRY SEWER PROJECTS APPROXIMATELY 32  TOTAL ESTIMATED CONSTRUCTION COSTS: \$70,300,000.000		4	DESEMTE ADDITIONS	000 000	d L C
ACTIVE SANITRY SEWER PROJECTS APPROXIMATELY 32  SERVICES OF SURVEY  INSPECTION  TOTAL  TOTAL	EXE				w 0
OF PROJECTS: 7 REPRESENTED SANITRY SEWER PROJECTS APPROXIMATELY 32 TOTAL	MONONGALIA COUNTY, WV		SERVICES OF SURVEY AND		
OF PROJECTS: 7 REPRESENTED SANITRY SEWER PROJECTS APPROXIMATELY 32  TOTAL TOTAL					
	TOTAL NUMBER OF PROJECTS:	>	TOTAL	ED CONSTRUCTION COSTS: \$70,	300,000.00
		4		STORY STATE	000 000

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD: HIGHWAY, BRIDGE, SIDEWALKS

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	STRUCTION COST	YOUR FIRMS RESPONSIBILITY	\$50,000,000.			
IRS	ESTIMATED CONSTRUCTION	ENTIRE PROJECT	\$220,000,000.			
CONSULTANT TO OTHERS	ESTIMATED COMPLETION DATE		2010			
FIRM IS SERVING AS A	NAME AND ADDRESS OF OWNER		US DEPARTMENT OF JUSTICE FEDERAL BUREAU OF PRISONS DESIGN AND CONSTRUCTION BRANCH 500 FIRST STREET NW WASHINGTON, DC 20534			
ACTIVITIES ON WHICH YOUR FIN	NATURE OF FIRMS RESPONSIBILITY		SITE DEVELOPMENT ENGINEERING DESIGN (GRADING/ STORM WATER/UTILITIES/ ROADS)			
16. CUR. ACTIVIT	PROJECT NAME, TYPE AND LOCATION		MC DOWELL COUNTY FEDERAL PRISON WELCH, WV SITE DEVELOPMENT		:	

17 C. THELL WORK WITHIN LAS	WITHTH NO SYEARS ON WHICH YOUR FIRE	S THE DESTGNATED ENGINEER OF RECORD		
PRÓJECT NAME, TYPE AND LOCATION	ORESS		YEAR	CONSTRUCTED (YES OR NO)
RALEIGH MEMORIAL AIRPORT RALEIGH COUNIY, WV	RALEIGH CO AIRPORT AUTHORITY 176 AIRPORT CIRCLE, ROOM 115 BEAVER, WV 25813-9475	\$5,000,000.00 - PHASE I	2007	YES
WOLFE CREEK PARK FAYETTE COUNTY, WV	EAYETTE COUNTY COMMISSION FAXETTE COUNTY COURTHOUSE 100 COURT STREET EAYETTE, WV 25840-0307	\$4,500,000 PHASE 1	2007	YES
PINECREST DEVELOPMENT RALEIGH COUNTY, WV	PINECREST DEV AUTHORITY 200 MAIN STREET BECKLEY, WV 25801-4613	\$1,500,000.00	2007	YES
CITY OF PARSONS SANITARY SEWER LINE EXTENSION TUCKER COUNTY, WV	PARSONS, CITY OF 341 2ND ST. PARSONS, WV 26287	\$ 900,000	2007	YES
TOWN OF FARMINGTON WATER LINE REPLACEMENT PROJECT MARION COUNTY, WV	TOWN OF FARMINGTON 1314 MILL STREET FARMINGTON, WV 26571	\$1,300,000.	2007	YES
CITY OF KINGWOOD WHETSELL SETTLEMENT WATER LINE EXTENSION PRESTON COUNTY, WV	KINGWOOD, CITY OF 313 TUNNELTON ST. KINGWOOD, WV 26537-1462	\$ 420,000.	2007	YES
NORTON-HARDING-JIMIOWN PSD WAJER LINE EXTENSION RANDOLPH COUNTY, WV	NORTON-HARDING-JIMTOWN PSD P.O. BOX 87 SCOTT ROAD NORTON, WV 26285	\$1,000,000	2007	YES
TOWN OF BATH - BERKELEY SPRINGS WATER WORKS MORGAN COUNTY, WV	TOWN OF BAIH 271 WILKES STREET BERKELEY SPRINGS, WV 25411	\$2,000,000	2007	YES

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH		YOU WERE THE DESIGNATED ENGINEER OF RECORD		
PROJECT NAME, TYPE AND LOCATION		ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
NICHOLAS COUNTY BUSINESS PARK, NICHOLAS COUNTY, WV SITE DEVELOPMENT	NICHOLAS CO BIDG COMMISSION 700 MAIN STREET, SUITE 1 SUMMERSVILLE, WV 26651	\$2,500.000.00	2008	YES
RALEIGH COUNTY PUBLIC SERVICE DISTRICT 2 WATER LINE EXTENSIONS	RALEIGH COUNTY PSD 224 EAST MAIN PO BOX 1286 SOPHIA, WV	\$3,700,000.	2006	YES
GILMER COUNTY PSD DUSK CAMP WATER LINE EXTENSION GILMER COUNTY, WV	GIIMER COUNTY PSD 232 W. MAIN STREET GLENVILLE, WV 26351	\$2,500,000	2008	YES
HODGESVILLE PUBLIC SERVICE DISTRICT; DESIGN AND CONSTRUCTION OF WATER LINE EXTENSION, BOOSTER STATIONS, AND WATER STORAGE TANK	HODGESVILLE PUBLIC SERVICE DISTRICT 188 FAXETTE STREET P.O. BOX 758 BUCKHANNON, WV 26201	\$3,100,000	2004	YES
CITY OF CAMERON WATER STORAGE TANK MARSHALL COUNTY, WV	CITY OF CAMERON 44 MAIN STREET CAMERON, WV 26033	\$2,000,000.00	2008	YES
HAMRICK PUBLIC SERVICE DISTRICT, TUCKER COUNTY, WEST VIRGINIA; DESIGN, PREPARATION AND CONSTRUCTION MANAGEMENT TO UPGRADE THE WATER TREATMENT PLANT	HAMRICK PUBLIC SERVICE DISTRICT P.O. BOX 228 HENDRICKS, WV 26271	\$2,461,000	2004	YES
FUTNAM COUNTY BUSINESS PARK; MITIGATION OF 13 ACRES OF IMPACTED WETLAND	PUTNAM COUNTY DEVELOPMENT AUTHORITY P.O. BOX 167 SCOTT DEPOT, WV 25560	\$1,500,000	2004	YES
TOWN OF ROWLESBURG WATER TREATMENT PLANT/ EXT. PRESTON COUNTY, WV	TOWN OF ROWLESBURG PO BOX 458 42 POPLAR STREET ROWLESBURG, WV 26425	\$4,500,000.	2008	YES

17 CONTRACTOR WORK WITHIN LAST 5	5 YEARS ON WHICH YOU WERE THE DE	ANATED ENGINEER OF RECORD		   
ME, TYPE	ND ADDRESS OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
JAKES RUN BRIDGE MONONGALIA COUNTY, WV	WVDOT/DOH 1900 KANAWHA BLVD EAST CHARLESTON, WV 25305	\$1,300,000.	2008	YES
ICG – THREE FORKS BRIDGE TAYLOR COUNTY	INTERNATIONAL COAL GROUP, INC. 2000 ASHLAND DRIVE ASHLAND, KY 41101	\$1,119,000.00	2008	YES
CITY OF RIPLEY - MAIN STREET REVITALIZATION - JACKSON CO.	CITY OF RIPLEY TIM KING, CITY SUPERINTENDENT 203 SOUTH CHURCH ST. RIPLEY, WV 25271	\$1,200,000.	2008	YES
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18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOU WERE ASSOCIATED WITH OTHER FIRMS (INDICATE PHASE OF WORK FOR WHICH-JUR FIRM WAS RESPONSIBLE)

WAS RESPONSIBLE)					
PROJECT NAME, TYPE	NAME AND ADDRESS		AEBY	CONSTRUCTED	FIRM ASSOCIATED
AND LOCATION		YOUR FIRM'S PORTION		(YES OR NO)	HIIM
GLENVILLE FEDERAL	FEDERAL BUREAU OF PRISONS		1		
CORRECTIONAL INST.	320 1 <sup>st</sup> STREET NW 500-6	\$96,000,000	2003	YES	BELL JUSTICE
SITE DEVELOPMENT	WASHINGTON, DC 20534				FACILITIES
GILMER COUNTY, WV					
FEDERAL BUREAU OF	FEDERAL BUREAU OF PRISONS				
PRISONS -CANAAN	320 1 <sup>ST</sup> STREET NW 500-6	\$120,000,000	2002	YES	BELL JUSTICE
FACILITY - SITE	WASHINGTON, DC 20534				FACILITIES
DEVELOPMENT -					
SCRANTON, PA					
FAIRMONT STATE COLLEGE	FAIRMONT STATE UNIVERSITY				
- STUDENT DORMITORY -	1201 LOCUST AVENUE	\$6,000,000	2004	YES	VOA ARCHITECTS
SITE DEVELOPMENT-	FAIRMONT, WV 26554-2491				
FAIRMONT, WV					
FAIRMONT STATE COLLEGE	FAIRMONT STATE UNIVERSITY				
- PARKING GARAGE- SITE	1201 LOCUST AVENUE	\$4,000,000	2003	YES	MARCH-WESTIN
DEVELOPMENT -FAIRMONT,	FAIRMONT, WV 26554-2491				
WV					
FAIRMONT STATE	FAIRMONT STATE UNIVERSITY		2005	YES	VOA ARCHITECTS
UNIVERSITY FEASTER	1201 LOCUST AVENUE	\$400,000.			
CENTER SITE	FAIRMONT, WV 26554-2491				
DEVELOPMENT -					
FAIRMONT, WV					
FAIRMONT STATE	FAIRMONT STATE UNIVERSITY	\$100,000.	2007	YES	DESIGN ALLIANCE
UNIVERSITY CREATIVE	1201 LOCUST AVENUE				OMNI ASSOCIATES
ARTS AND ENGINEERING	FAIRMONT, WV 26554-2491			· · · ·	
TECH BUILDING SITE					
DEVELOPMENT					
FAIRMONT, WV					
19. USE THIS SPACE TO P.	19. USE THIS SPACE TO PROVIDE ANY ADDITIONAL INFORMATION OR DESCRIPTION OF	RESOURCES	SUPPORTING	SUPPORTING YOUR FIRM'S QUALIFICATIONS	LIFICATIONS TO

<sup>19.</sup> USE IHIS SFACE TO FROVIDE ANI ADDITIONAL INFORMATION OR PERFORM WORK FOR THE WV ABANDONED MINE LANDS PROGRAM

# SEE ATTACHMENT - STATEMENT OF QUALIFICATIONS

20. THE FOREGOINGING A STATEMENT OF FACTS.  SIGNATURE: ## STATEMENT OF FACTS.	TITLE: DIRECTOR OF BUSINESS DEVELOPMENT	DATE:	DATE: JUNE 9, 2010
RINTED NAME: STEVEN T. ENGELHARDT			

# STATE OF WEST VIRGINIA Purchasing Division

# PURCHASING AFFIDAVIT

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

### **DEFINITIONS:**

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

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

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

**LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

**CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit **www.state.wv.us/admin/purchase/privacy** for the Notice of Agency Confidentiality Policies.

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

Vendor's Name: Thrasher Engineering, Inc.	
Authorized Signature: Mylly	Date: June 14, 2010
Purchasing Affidavit (Revised 06/15/07)	