

Coal Heritage Discovery Center for the

Coal Heritage Highway Authority





PROJECT TEAM

E.T. BOGGESS, ARCHITECT, INC.
IOI Rockledge Ave. Princeton, WV 24740 304-425-4491



TERRADON CORPORATION
PO Box 519 Nitro, WV 25143 304-755-8291





Connie Hill Purchasing Division 2019 Washington Street, East PO Box 50130 Charleston, WV 25305-0130

July 12, 2012

Dear Ms. Hill:

In response to your qualifications request for professional Architectural and Engineering Design Services for the restoration and adaptive reuse of the historic Dearing Building to accommodate the Coal Heritage Discovery Center, the E.T. Boggess, Architect, Inc., team is pleased to submit information regarding our experience and specialized expertise. Our team is comprised of highly qualified firms versed in:

- Architectural Design Services Planning and Programming
- Mechanical/Electrical/Plumbing Engineering
- Structural and Civil Design
- Cost Estimating
- Graphics/Imagery Production

I will be your architect and will be responsible for all aspects of the project. ETB will also be coordinating the activities of our consultants. We understand this renovation will allow the Coal Heritage Highway Authority to use the facility as an interpretive and visitors center. Our design will ensure that all the needs of the administration and staff, as well as visitors to the facility, will be met. We believe our past accomplishments on projects for the state, including historic renovations, visitor centers, and museums, proves we have the experience, knowledge and dedication to provide you with all the professional services you will need to successfully accomplish this project.

The ETB Team stresses a focus on client issues and mutually defined project objectives. Through this focus, we can assure the Coal Heritage Highway Authority and State of West Virginia that needs and project issues will be clearly identified and addressed through an engaged, interactive programming, design, and construction process. Our design process will be conducted with an attention to detail, creative problem solving and passion towards project success. We value this opportunity to serve you and look forward to personally presenting our credentials.

Sincerely,

odd Boggess, AIA, NCARB, Architect

President

RECEIVED

2012 JUL 12 AM 9: 55

WV PURCHASING DIVISION

TABLE of CONTENTS

Cover letter

- I Approach
- 2 Firm Profiles
- 3 Projects
- 4 Historic Preservation Services
- 5 Resumes
- 6 Signed Documents

WV Purcharing Affidavit
Addendum Acknowledgement Form
Certification & Signature Page
Signed Solicitation

SECTION ONE

Approach

Coal Heritage Discovery Center

The E.T. Boggess, Architect, Inc., team understands the challenges facing the Coal Heritage Highway Authority as you renovate the Dearing Building (Patteson Ford Building). Your vision to create an interpretive and visitor center at this historic building will create numerous opportunities. ETB has completed a variety of adaptive reuse projects, historical renovations, as well as visitor centers for government agencies throughout our region. also understand the importance of having tourist facilities in place and ready to serve the visitors that will be coming to our area in conjunction with the Boy Scout Jamboree. involvement on The Summit project thus far has given us a unique perspective and understanding of the impact that this event will have on the surrounding area. This is a wonderful opportunity for our state and we should, as always, showcase our very best, from recreational activities to WV made products to our state's history.

In recent years, ETB has worked on a number of historic renovations and has developed an excellent relationship with the State Historic Preservation Office. This spring, one of our historic renovation/adaptive re-use projects, the Princeton Public Library, received the WVAIA's Honor Award. project involved transforming the vacant former USPO into a vital downtown center of activity. We have also recently renovated a building in Lewisburg's historic district to accommodate the Greenbrier County Convention & Visitors Center. These facilities are truly important to both our local citizens and tourists who visit nature's playground.

We have asked Terrradon Corporation, also working with us at The Summit, to provide any civil/site/landscaping engineering services that may be needed.

Terradon has provided professional services on a variety of projects throughout our region and ETB has worked with them on numerous projects for a variety of government agencies.



If we are selected for the project, we will closely examine the specific needs associated with mechanical/electrical/ plumbing before committing to a specific MEP consultant. Scheduling be a major consideration throughout the duration of the project and we will do our job to ensure that nothing interferes with progress. We maintain an excellent relationship with several firms within our state, as well as on a national basis, including:

- CMA Engineering (Charleston)
- Harper Engineering (St. Albans)
- ME Consulting (St. Albans)
- Tower Engineering (Pittsburgh)
- Newcomb & Boyd (Atlanta, GA)
- Scheeser Buckley Mayfield (Columbus, OH)
- Valley Engineering (Harrisonburg, VA)

While all of the firms we have worked with produce quality designs, the decision may rely on which firm can produce the documents and perform the necessary services within your timeframe. We will utilize the firm that we feel best satisfies the needs of the project.

All of these MEP consultants have been involved in sustainable design and LEED certified projects. They understand the important attributes that can save energy, money, and valuable resources over time. All of these firms will provide designs that comply with the ICC International Energy Conservation Code.



Philosophy

Communication, collaboration, and consensus are the three elements we feel are essential to the planning, design and building process. The architect is responsible for the finished product, but the design process must include guidance and review by you and representatives from the various agencies. Our goal is to develop a "partnership" with our clients – a relationship that includes a long-term commitment, trust, and shared vision.

believes ETB architectural design should be an interactive process. We work closely with you to identify and define all your project goals, objectives, functions, responsibilities, and relationships. This interactive approach enables us to develop facilities that meet your requirements, as well as being aesthetically distinctive. Design cannot be mass produced or provided in a "cookie cutter" fashion, it must be developed from scratch with the unique attributes of each individual project in mind.

Our approach is not about us and our ideas...it is about you and your ideas. We strive to help you realize your dreams.

Methods

The Integrated Design Process is our process of design in which the users, owners, and the ETB team (architects and engineers) and project participants are all integral team members. integrated process and the implementation of high performance design requires both efficiency and innovation. Active participation of users, code officials, cost consultants, mechanical, and electrical engineers, and representatives from the Coal Heritage Highway Authority is critical to the project's success.

In our role with this team as the design leader and project organizer, ETB will be responsible for coordinating and orchestrating the work of the many disciplines and users throughout the design, documentation, and administrative functions of the project. Utilizing the interactive design approach will best serve the needs of the CHHA by allowing us to better identify your objectives and produce long-term solutions. Your project will be completed by emphasizing the following activities:

- Understanding goals. We develop a plan for identifying and prioritizing individual goals as a means for addressing the overall project.
- Brainstorming ideas. We investigate opportunities for greater service through value engineering, strategic partnering, or an alternative delivery method.

- Assuring timelines. We generate a management plan to fulfill deliverables and meet milestones on schedule. All team members participate in and monitor this plan.
- Maintaining client contact. We are accessible, convenient, and committed to success from the beginning through the design process, and after completion.
- Inviting performance feedback.
 We involve all team members and clients in project evaluation at closeout and determine how well time, cost, and design goals were met.

High Performance Design

High Performance Buildings - those that incorporate the very best design strategies and building technologies are long-term, critical investments in the future of our state. They simultaneously provide better for environments their and users employees, cost less to operate, and help protect the environment. Performance Buildings are healthier (superior indoor air quality); thermally, visually, and acoustically comfortable (day-lighting); energy, water efficient (lifecycle material cost analysis); safe and secure, adaptable, and easy to operate and maintain. They also incorporate environmentally responsible site planning, stimulating architecture, foster a sense of pride and accountability, and provide a resource for the entire state.

Our designs will help the Coal Heritage Highway Authority to retain quality staff, reduce operating costs, and reduce liability, all in an environmentally friendly and economical manner by utilizing High Performance Facilities design.

Design developed with flexibility in mind, simple circulation patterns eases expansion possibilities reconfiguration for adaptive reuse. This enhances building longevity.

We are committed to providing facilities that incorporate both High Performance and Sustainable Design features so that our state's natural resources and finances are best utilized.



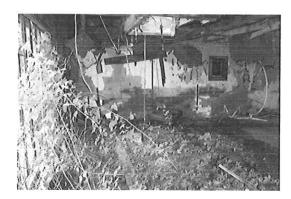
Sustainable Design

Sustainable Design is a direction in architecture that we have practicing for many years. We must learn to use our natural resources in conjunction with technology to achieve the quality and standards of life that do destroy future generations' environments. These directions are very cost effective when properly approached. The architect and the client need to recognize understand that cost is measured in many ways. We must approach solutions that provide the comforts we seek and do so within restricted budgets. It truly is a team effort to make it work to everyone's satisfaction.

Sustainable design recognizes the interdependence of the built and natural environments; it wants to harness natural energy flows and biological processes, eliminate reliance on fossil fuels and use of toxic materials, while improving resource efficiency.

The following list contains sustainable items that we examine and/or utilize on all of our projects:

- Sustainable Sites
- Water Efficiency
- Energy and Atmosphere
- Materials and Resources
- Indoor Environmental Quality
- Daylighting



Scope of Services

The ETB team of professional consultants can provide any or all of the following services:

- Architectural Design
- Structural Engineering
- M/E/P/Fire Protection Design
- Structured Cabling & Technology Systems
- Site Development / Parking
- Landscaping Design
- Computer Visualization

The services listed will accomplished in steps or phases beginning with Pre-Design/Planning, then Schematic Design Phase, followed by Design Development Phase. Once you approve the final design, we start the Construction Documents Phase, then proceed to the Bidding Phase, and, finally, the Construction Administration Phase. Throughout the entire process, we continue to utilize an interactive design process and maintain effective communication. information that follows will help you understand each phase.

Pre-Design/Planning

A thorough review/examination of the existing Dearing Building will begin the pre-design/planning process. Our team will lay the groundwork to clarify the project's goals and design issues. We have no preconceptions and will work to answer your project needs as we define them together.

Services/tasks include . . .

- Determine project's goals and design objectives.
- Identify project constraints and opportunities.
- Review and analyze data on space program/staffing
- Examine how current offices function

Schematic Design Phase

The schematic design documents will establish the general scope and conceptual design of your project, and the scale and relationships of the building components. The main goal of this phase is to arrive at a clearly defined, feasible concept and to present it in a form that will result in your understanding and acceptance.

You will have the following items to review at the end of this phase:

- Preliminary Building Plan with elevations or space adjacency studies
- Perspective Sketches
- Preliminary Cost Estimates

Design Development Phase

Services in the design development phase strive to achieve the refinement and coordination necessary for a polished work of architecture. Here decisions made in schematic design are worked out at a more detailed level to minimize the possibility of major modifications being needed during the development of construction documents.

Your design team arrives at a clear, coordinated description of all aspects of the design, including . . .

- Site/Civil
- Architectural
- Structural
- Mechanical
- Electrical
- Plumbing
- Fire Protection Systems
- Technology & Special Systems

Final Design Phase / Construction Document Phase

Construction documentation is the bridge between building design and physical building form. A key element of documentation services, construction drawings provide the instructions for transforming the design solution into brick, mortar, landscapes, access, etc. The purpose of providing construction document drawings is to provide graphic documentation for bidding and execution of construction services.

Services/tasks include . . .

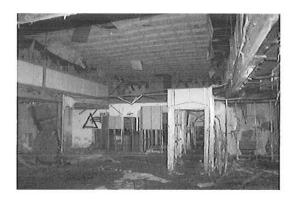
- Prepare construction drawings based on approved design development drawings.
- Coordinate and incorporate drawings from all team members.
- Prepare specifications to accompany drawings to establish a desired level of performance.
- Submit documents to building code officials.
- Prepare bid packages.

Bidding Phase

Construction procurement activities assist the client in obtaining competent construction services. Our team will prepare bid packages or request for proposals/qualifications, and we will support the selection, negotiation, and contract award processes.

Services/tasks include . . .

- Assist client in selection of project delivery method.
- Organize or participate in prebid conference.
- Distribute bidding documents.
- Address questions submitted by bidders.
- Review and evaluate competitive bids.
- Award contract for construction.



Construction Phase / Contract Administration Services

Contract administration services are important in order to ensure construction conforms to construction documents; to support the design intent; to lessen project risks; to identify and resolve construction problems early; and assist you in understanding the construction process. The architect, serving as a construction administrator, observes construction for conformity construction drawings and specifications.

Services/tasks included . . .

- Establish lines of communication.
- Maintain and distribute paperwork/records.
- Respond to contractor's requests for information.
- Track changes in construction documents.
- Review contractor's requests for payment.
- Review shop drawings and product information.
- Prepare field reports and records.
- Supervise completion and closeout.
- Assist with any post-occupancy issues.

During the construction phase, we will be at the site on a regular basis and will be available by phone to answer any of your contractor's questions. We review shop drawings/submittals, and pay requests from the contractor. We want to ensure the construction is in compliance with the design intent.

Your renovated Coal Heritage Discovery Center will comply with . . .

- ✓ the International Building Code
- ✓ ICC International Energy Conservation Code
- ✓ Life Safety Codes

- ✓ all local, state and federal regulations
- ✓ the Americans with Disability Act (ADA)
- Secretary of the Interior's Standards for Rehabilitation of Historic Structures

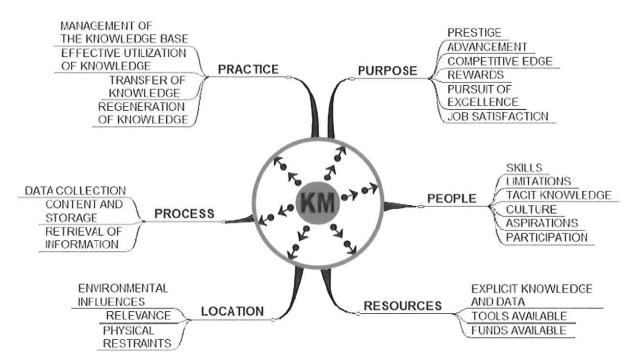
Once the doors open and you occupy the building, we will remain available to assist you with start-up questions, "fine tuning and balancing" of systems required to make sure the building works specifically for the Coal Heritage Highway Authority.



Information Management

mentioned previously, coordination is ETB's responsibility. A very effective tool we utilize in this process is a standard format dedicated website. The website, created inhouse, is a key communication component for sharing all types of project information. The owner has immediate access to everything from design plans, imagery, and construction documents to submittals, submittal field reports, and meeting minutes. This has been a very valuable and effective tool to ensure quality control/assurance standards being maintained.

The following pages outline the information that can be included and gives an example of a current website.



CRITICAL ELEMENTS OF KNOWLEDGE MANAGEMENT Source: 'A Model for Knowledge Management' by Roy Morum

PROPOSED PROJECT WEBSITE

As a service to the client and for the sake of efficiency, ETB creates an online (secured and password protected) website for each project which functions as a project management tool. The site gives the project team direct access to project information and we consider that effective Knowledge The Project Website is designed with a simple interface – for ease of access by hand-held devices and slower computers and on site, where web-access has limitations Management is the key to the success of the project. This method has proved most successful on our projects – keeping the client and the team members well informed and insuring that the latest information is always readily available.

We maintain the site after the project is complete and this can provide the client with a valuable resource for ongoing <u>Facilities Management</u>.

The site has the following main information areas which may be expanded or adapted to meet the particular needs of the project:



Home Page

General information such as project description site location and site information.

Navigation Map

An outline of the Site Navigation structure.

Administration

All the latest administration documentation will be kept here, such as:

- Site Minutes
- Status Reports
- Field Inspection Reports
- Change Orders

Documents-Drawings

This is the working area of the Web-Site and will include an interface for Transfer of documents via FTP. The sections include:

- Drawings Index & Revisions. (The latest revisions are always shown on this index.
- · Specifications & Keynotes.
- · LEED Documentation,
- Drawings.(In CAD and PDF format)

Graphics

The Graphics page will provide an interface to view to Concept Models etc.

- Concept Graphics.
- Site Images.
- Job Camera
- · Rendered Images.

Project Schedule

The latest version of the following will be kept here:

- Project Schedule
- Project Milestones
- Project Meetings/ Calendar
- · Current Site Weather conditions

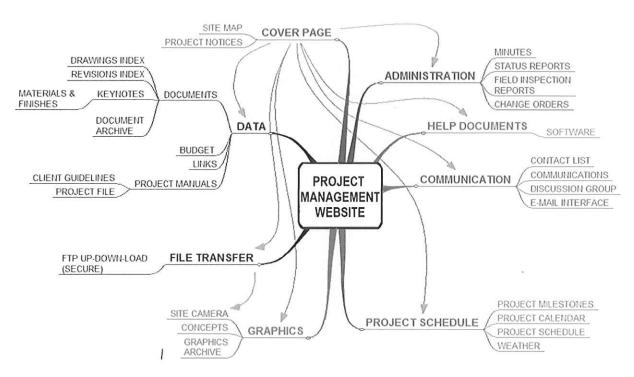
Communication

This page provides all the latest contact details of the parties involved in this Project. The sub-sections include:

- Contact List
- Communications
- Discussion Group
- · E-mail interface

Help Documents

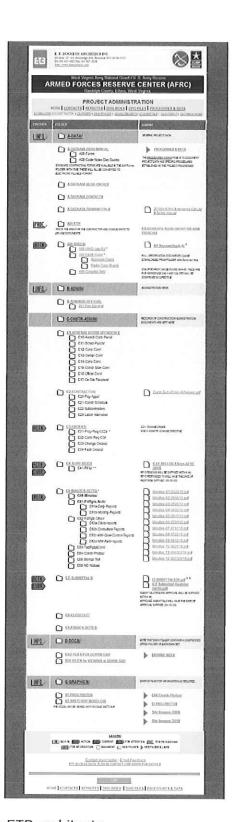
This page provides assistance on any issue related to the Project and the Web-Site. Software required for the use of this site (such as drawing viewers) can also be downloaded here.



WEBSITE MAP - As developed and managed by ETB architects







TYPICAL PROJECT WEBSITE -by ETB architects

SECTION TWO

Firm Profiles

Firm Profile

E.T. Boggess, Architect Inc.

History

E. T. Boggess, Architect, Inc., (ETB) is a 15 person architectural firm located in Princeton, West Virginia. Our firm was established in 1966 by Ted Boggess and has been successful because of a team approach and partnership-type attitude with all involved in the design and construction process. grown up in the practice and with a life-long love of architecture, Todd became a full time presence with the firm in 1988 after receiving a Masters in Architecture from Clemson University. Their unique relationship father/son/mentor/ apprentice now, partners is both exciting and rewarding as the practice continues to flourish and evolve.

Reputation

Our firm lives or dies by its reputation. We work for "Pride in Product" and are confirmed by the amount of repeat business we can truthfully claim.

The architects at ETB are wellrespected for their high standards, as well as professional and civic activities. They are frequently asked to serve as expert witnesses and arbitrators in legal disputes. They have also been selected to serve on various local, state and national committees. These committees cover areas from determining local zoning ordinances to reviewing and developing educational requirements for future architects, to preserving West Virginia's historic architecture.

Attitude

Bigger is not always better. ETB has purposely controlled size in order to maintain personal involvement and quality control.

We feel that it is important to maintain close client contact and availability to respond to your needs and address any situations that may arise. Your project will not get lost in the shuffle. We are, of sufficient however. size capabilities to accommodate the needs of these projects, as well as ensuring the successful completion of our current workload. The depth of our personnel is such that we can assign individuals to the appropriate task during each phase to ensure all your projects' needs are satisfied.

Teamwork

All projects and, thus, our services are not as much dependent on our design abilities as architects, but rather on our commitment to perform and implement a set of standards and design that responds to the needs of our client. In house, ETB actually functions as a team of consultants with the strengths and abilities emphasized in their role within the team. In particular, our expertise is very strong with regards communication and information management, unique design solutions, construction documentation, project administration, and quality control. These areas of expertise represented by the team members that will be highly involved on these projects for the board of education.

Throughout West Virginia, we have developed relationships with government agencies, contractors and material suppliers which will valuable as we address the challenges associated with this project. ETB has worked with many of the code officials, including the state fire marshal, and consider them an extension of our another member who is concerned about the final design. We review our designs with the State Fire Marshal's Office in Charleston regular intervals during the design process.

Firm Profile E.T. Boggess, Architect Inc.

Experience

Over the past 46 years, ETB has accomplished many different types of buildings in 12 different states and 1 foreign country. We have not limited ourselves by focusing on one particular type of project or a single location. Instead, we choose to maintain a diverse practice which allows us to begin each project with renewed enthusiasm. Our strength is in the delivery of appropriate and analytical solutions for complex buildings and doing so within restricted budgets and time constraints.

Almost 30 years ago, ETB was one of the first architectural firms in the state to implement the use of computeraided design and drafting into the everyday practice of architecture. Today, we continue to lead the industry as we utilize photorealistic imagery through computer modeling and digital photography. The building 3-D model associated imagery can be developed early in the design process for your presentations. This helps everyone better understand design approaches and project contextural relationships within a setting.

The vast opportunities associated with virtual reality allow us to provide you with a "tour" of your finished building long before the foundation has been laid. We are also utilizing a dedicated ftp website which allows for more effective team collaboration on many of our recent projects. A variety of information can be shared on the website and available for immediate The Coal Heritage Highway review. will benefit Authority from experience, combined with ongoing technological research and innovations.

Schedules & Budgets

ETB understands the importance of ensuring that all schedules and budgets Our past experience are met. designing within the confines of strict budgets and tight construction schedules makes us even more diligent Some of our most in these areas. recent projects, especially for state agencies, have presented us with very scheduling rigorous goals. projects for the West Virginia School Building Authority have penalties built in if schedules and established budgets are not adhered to providing additional incentive to meet deadlines.



Quality Assurance

We feel quality assurance is the ability of an architect to provide the client with a set of documents that satisfies the client's needs and are as accurate as possible. ETB believes quality assurance is an ongoing process, not just a one-time occurrence. No project is perfect, however, we strive to achieve maximum client satisfaction. To that end, we have set the following goals for ourselves:

- Promote teamwork . . .
 - With owner and representatives
 - Within the office
 - with outside consultants
 - with regulatory officials

Firm Profile

E.T. Boggess, Architect Inc.

- Quality management throughout entire project -Website
- Prompt response to client's requests Availability
- Creation of quality construction documents - Purpose Driven
- Error prevention, not error catching Standard Practices
- Personal pride in our work -Motivation
- Education and Training in-house (staff mentoring) - Continuing Education
- Go the extra mile whenever necessary - Service Oriented

Quality Control

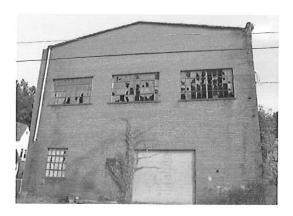
Quality control starts with matching expectations about quality levels with budget and scope during planning and design reviews and continues through construction delivery with a program of inspections, tests, and certifications. It flows seamlessly from one phase to another. The "partnership" we develop during the project assists us in maintaining quality control. We strive to coordinate performance among the entire project team in order for a completed building program to fully satisfy your needs and expectations. The quality control plan we follow should help eliminate errors, reduce cost and improve overall building quality. ETB normally follows the plan as outlined below:

 Keep the lines of communication open between all team members

- Share lessons learned from recent similar projects, include value engineering
- In-house reviews to address issues with constructability
- Utilize past experiences related to construction administration
- Provide post construction administration services to be utilized on future projects

Many of our projects, especially in recent years, have involved state-of-the-art technology and security/communication systems, as well as focusing on energy efficient, sustainable designs.

Section 3 contains more information regarding some of these projects.



SERVICE OFFERINGS

- LAND PLANNING & SITE DESIGN
- » SURVEYING & MAPPING
- » CIVIL ENGINEERING
- » GEOTECHNICAL INVESTIGATIONS
- » MATERIALS TESTING & CONSTRUCTION MONITORING
- » ENVIRONMENTAL
- » ROADWAY & BRIDGE DESIGN
- » ENERGY SERVICES

Multi-disciplined Engineering: Experience and Solutions Under One Roof

TERRADON is particularly suited to design engineering within the mountainous areas of West Virginia and the Appalachian Region. The firm has been recognized through numerous awards from professional organizations and agencies including the West Virginia Division of Highways, Department of Environmental Protection and the West Virginia Chapter of American Institute of Architects.

TERRADON maintains more than 50 leading-edge staff selected to service particular client

needs. Its offices sustain customers through a widerange of engineering offerings.

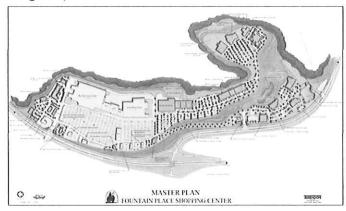
TERRADON's seven departments work cohesively to provide turn-key solutions that strive to exceed client expectations.

TERRADON's corporate culture promotes innovation and progressive thinking. Its employees understand the

Executive Summary

TERRADON CORPORATION offers a wide range of engineering design and support services. For more than 20 years TERRADON has provided a wealth of engineering services, blanketing West Virginia and surrounding states with successful projects. The company built its reputation on expert personnel and quality, time-sensitive service. Those same founding principles hold true today.

Staff includes engineers, landscape architects, surveyors, planners, environmental scientists, designers, and technicians.



Industrial Park Planning

TERRADON has provided land planning and design services for West Virginia's highest visibility Industrial Parks and Shopping Centers.

Due to the breadth of services offered, TERRADON is regarded as one of the region's leading infrastructure planning and design firms.

> purpose behind their services and work to cultivate lasting relationships with clients through honest, hard work.

The family-owned business has built its reputation by providing cost effective design solutions and maintaining the highest level of customer service.

LAND DEVELOPMENT

Land Development covers a broad swath of TERRADON's service offerings and sees a large percentage of its annual revenue from repeat clients or referrals. The group is comprised mainly of Landscape Architects and CAD designers and works closely with every other department within the company. TERRADON's Land Development department works with public and private entities and has a strong presence in the commercial, industrial, educational, and recreation development sectors.

TERRADON Landscape Architects remain on the forefront of sustainable design, providing LEED Accredited Professionals to clients. Projects utilizing sustainable design best practices aid clients in significantly reducing energy costs.

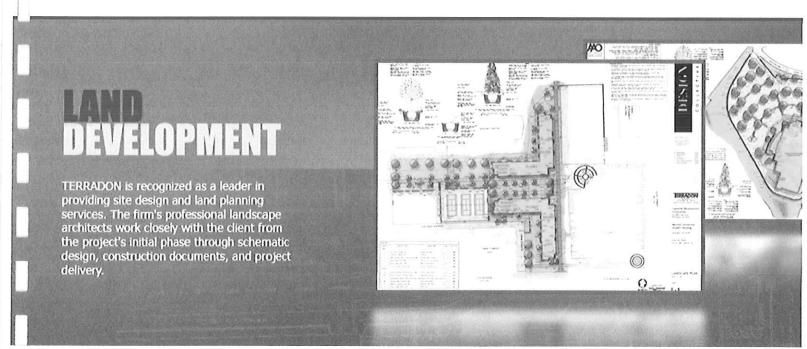
TERRADON's Land Development Services include:

- » Master Planning
- » Site Feasibility Studies
- » Schematic Design
- » Layout and Grading Plans
- » Stormwater Management Plans
- » Erosion Control Plans
- » Planting Plans
- » Presentation Drawings/Renderings
- » Construction Observation

Gregory D. Fox, ASLA, LEED AP Department Head: Land Development

TERRADON's Land Development Services are managed by Greg Fox. A native West Virginian, Fox has been responsible for hundreds of industrial, commercial and educational site development projects.

His group has earned numerous Engineering Excellence awards from industry associations, and provided planning and design services on some of the State's most well-recognized developments.



WATER & WASTEWATER

Since 1989, TERRADON has provided planning, design, and construction administration for millions of dollars worth of environmental projects including wastewater, water, and storm water improvement projects. The company has designed more than one million feet of water main - enough pipe to stretch from Charleston, WV to Charlotte, NC.

TERRADON engineers have numerous resources within the company to draw on, such as surveying, geotechnical engineering, environmental engineering, landscape architecture, materials testing, and construction monitoring. This allows the project manager to control all phases of the design process, from initial site reconnaissance through construction.

Jim Downey
Department Head - Civil Engineering

Jim Downey manages TERRADON's Civil Engineering practice and focuses primarily on water and wastewater design. With 35 years of experience, Downey brings a wealth of knowledge to TERRADON projects.

Downey's Civil Engineering Group was responsible for the design of an infrastructure system larger than any in the State of West Virginia when it engineered water and wastewater systems for the 11,000-acre Summit Bechtel Reserve in Fayette County, WV. Civil Engineering Services include:

- » Utility Design Engineering
- » Wastewater Collection, Pumping, and Treatment
- » Water Treatment, Storage, and Distribution
- » Natural Stream Design and Mitigation
- » Mine Reclamation
- » Utility Planning and Layout
- » Cut and Fill Analysis
- » Erosion and Sediment Control
- » Computer Modeling



MATERIALS TESTING & CONSTRUCTION MONITORING

TERRADON offers materials testing and construction monitoring to document compliance with project design specifications and regulatory requirements. The firm provides construction monitoring for utility, highway, and commercial construction projects. TERRADON also provides laboratory and field testing of construction materials. Engineers and technicians at TERRADON are West Virginia Department of Highways certified in Portland Cement Concrete, Hot mixed Asphalt, Compaction, and Aggregates.

Testing and Monitoring Services include:

- » Slump of Portland Cement Concrete (AASHTO-T119)
- » Air Content of Freshly Mixed Concrete (AASHTO-T196 & T152)
- » Unit Weight and Yield (AASHTO-T121)
- » Making and Curing of Concrete Test Specimens (AASHTO-T23)
- » Compressive Strength of Concrete Specimens (AASHTO-T22)
- » Fine and Course Aggregate Gradations (AASHTO-T11 and T27)
- » Specific Gravity of Aggregates (AASHTO-T84 and T85)
- » Atterberg Limits (ASSHTO-T89 and T90)
- » Moisture Content of Soil (ASTM-D2216)
- » Nuclear Compaction Testing of Soil, Stone, and Hot Mixed Asphalt
- » Preparation of Certification Forms and Construction Reports

William Hunt, PG, LRS
Department Head: Geo-Environmental

Bill Hunt oversees TERRADON Materials Testing and Construction Monitoring activities as Department Head for the company's Geo-Environmental practice.

Hunt is a 23-year industry expert with a background that includes numerous construction inspection projects. Hunt's inspection group provides a highly experienced staff with decades of construction monitoring experience.

MATERIALS TESTING & CONSTRUCTION MONITORING

TERRADON offers materials testing and construction monitoring to document compliance with project design specifications and regulatory requirements. The firm offers a staff that is well-versed in the industry, holding all WVDOH certifications for materials testing.



SURVEY AND MAPPING

TERRADON has developed an extensive resume of successful surveying and mapping projects performed throughout the difficult terrain of West Virginia and surrounding states. The Survey and Mapping group performs services for a large number of private and public sector clients. TERRADON's experienced, staff of licensed professional surveyors and mappers brings expertise and proficiency to every project.

It's commitment and investment in state-of-the-art equipment and technology enable the company to overcome unique and challenging project conditions and obstacles.

Robert Thaw, PS

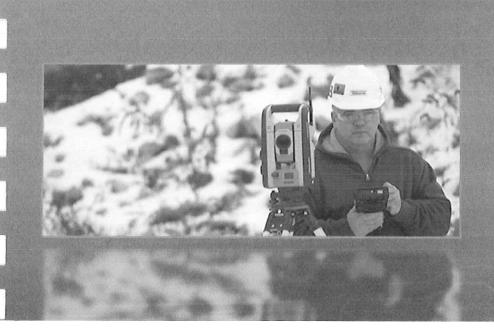
Department Head: Survey & Mapping

Robert Thaw is Manager of Surveying Services for TERRADON. He organizes and supervises survey crews; designs commercial sites for drainage, building site locations, parking and utility easements; reviews project plans; and creates base mapping. Thaw has nearly 25 years of experience in a wide range of land surveying applications. Thaw is well respected in the survey industry and oversee a staff that includes five (5) in-house Professional Surveyors.

Survey and Mapping Services Include:

- » GPS Control mapping
- » GIS
- » Underground utility location
- » Wetland delineation surveys
- » Base mapping for (GIS) geographic information system
- » Boundary surveys
- » ALTA/ACSM surveys
- » Topographic surveys
- » Engineering design surveys

- » Aerial Imagery
- » Horizontal and Vertical Control Surveys
- » Commercial subdivision platting
- » Residential subdivision platting
- » Cellular / Communications Towers Surveys
- » Hydrographic / Marine Surveying
- » Tree Surveys and Inventories

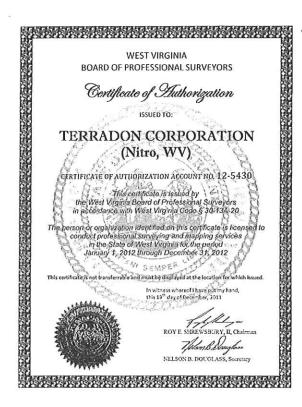


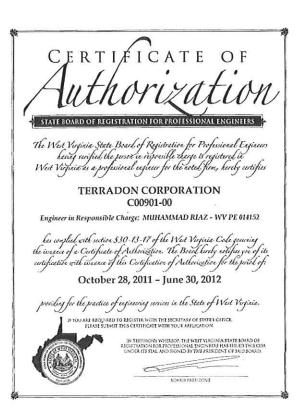
SURVEYING 8. MAPPING

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



Certifications





WBENG Wemen's Business Enterprise National Council

hereby grant

National Women's Business Enterprise Certification

who has staces fully met WBEACs standards as a Women's Basiness Enterprise (WBE). His certification affirms the business is woman council operated and controlled, and is valid through the date benein

> WHING Submit Will Derthadon on promoted are existent by the risk volley. Women's Bassiss Dearth a WIRPAC Regard Factor Organization

Expression Date: 01:29:2013 WSENC National Conflicate Number: 2003[12195] Gu X Waldgo

CHYKHE

NAICS Codes 541330

UNSPSC Codes #110000

AND C ? A WELL AND THE WAR WHEN AND

SECTION THREE

Projects





Coal Heritage Trail Interpretation Center Bramwell, WV

Construction of the new Coal Interpretation Center for the Bramwell Development Authority has been completed. The Center is patterned after the original N&W train station that was located on the same site during the early 1900's. In the design, an open courtyard provides the entrance to the Center.

The layout includes a lobby, an interpretive display area for coal artifacts with audio/visual presentations, information center, gift shop, and restrooms. An elevated, covered walkway reminiscent of a train passenger loading dock leads along the courtyard to an authentic N&W railroad car.



Historical Re-creation





Coal Heritage Trail Interpretation Center Bramwell, WV















Railroad Museum

Princeton, WV

Princeton, as we know it today, began with the coming of the Virginia Railroad early in the Twentieth Century. The first commercial district literally rose from the railroad tracks up to East Mercer Street where a half dozen buildings still stand.

The museum, which opened in the fall of 2006, commemorates the history of the railroad in our area. It is a re-creation of the railroad station which served Princeton for many years.

The City of Princeton requested ETB's assistance with the design of a new access road for the Railyards Industrial Park. The new road allows commercial traffic easy access to the former railyards. Some redevelopment has been accomplished by using historical tax credits. ETB has assisted both private individuals and government agencies with projects that are reviving the East Mercer Street area.



Historical Re-creation







Railroad Muzeum

Princeton, WV









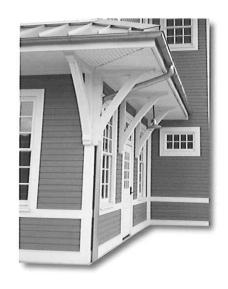
Historical Re-creation





Railroad Museum

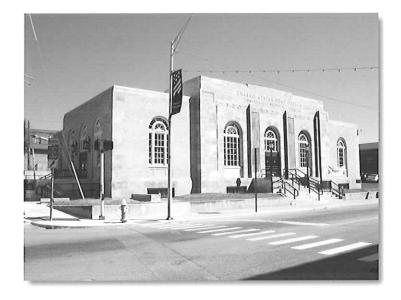
Princeton, WV







Historical Re-creation







Princeton Public library

E.T. Boggess, Architect, Inc., provided the renovation design that has allowed the historic former U.S. Post Office building to be the new home for the Princeton Public Library. This project involved a total interior renovation that has transformed the abandoned building into a focal point for Mercer Street.

In addition to providing much needed space for books, this adaptive re-use has enabled the libary to have designated spaces for audio/visual, as well as an exclusive West Virginia Room. Activities associated with the operation of the library are easily maintained from the custom designed control desk.

The basement offers separate rooms dedicated to three specific age groups. The open computer area is also housed on the lower floor and two state-of-the-art technology meeting rooms are available for public use.

Exterior renovations involved a thorough restoration of the cut stone and brick, and improved access.

During the renovations, several architectural "surprises" were uncovered and incorporated into the final design.

Historical Renovations/ Adaptive Re-use



HONOR AWARD WVAIA 2012



EXIL



Princeton Public library





Historical Renovations/ Adaptive Re-use



HONOR AWARD WVAIA 2012





Greenbrier County Convention & Visitors Center

lewirburg, WV

ETB designed the renovations to the former Yarid's Building to accommodate the GCC&VC. The renovations created an openfloor plan on the lower level to satisfy the needs of the visitor's center. A large conference room was also created to provide a place for public meetings to be held. The upper level design provided new office space for the Chamber of Commerce and the Development Authority. There are also two units available for rent. The exterior "facelift" included new windows, awnings, roof and exterior lighting.

The building has received very positive feedback and continues to attract a great deal of traffic.





Historical Renovation



Greenbrier County Convention & Visitors Center

lewirburg, WV













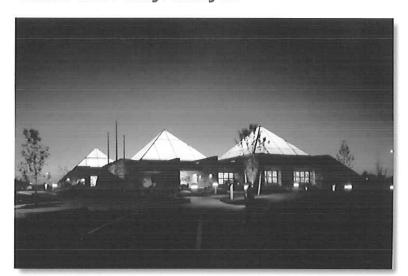
Historical Renovation



View of Main Entrance



Exterior View Facing Parking lot



View at Night

West Virginia Tourist Information Center

The WV Tourist Information Center is "composed" of three pyramid shaped skylites, (41' x 41', 33' x 33' and 29' x 29') that enclose a large main exhibit hall with the information desk, multi-use small exhibit hall with a mezzanine level, and restroom facilities.

Horticulture gardens with native plants and trees, along with picnic areas surround the facility. West Virginia products were used throughout the project, including hardwood flooring, "Terne" roofing and native field stone.

Cost: \$3.1 mil Size: 7,200 sf Visitors: 125,000/year

...., ..., ...



MERIT AWARD WVAIA 1994

Approach from Highway



Main Exhibit Hall with Information Derk



Main Entry

West Virginia Tourist Information Center

The design philosophy of the award-winning West Virginia Tourist Information Center is meant to instill pride for those who live here and a sense of progress for those who visit.

Along with providing a stunning first impression, the design of the facility focuses on highlighting the natural beaurty of the state. The seemingly "high-tech" design is complimented by incorporating a dry, stacked stone wall & splitrail fense into the landscape, utilizing an exposed framing system, and showcasing the works of West Virginian articans.





MERIT AWARD WVAIA 1994



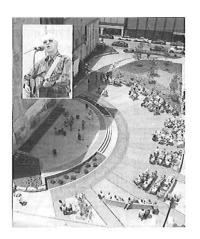


Chicory Square Interpretive Area Bluefield, WV

Chicory Square Interpretive area is the second phase of the Bluefield Downtown Streetscape Project.

The renovations symbolize the "round house" design, once a prominent feature in Bluefield. Walkways radiate out from the center of the stage in the same manner as the old railways radiated out from the round house, making the stage area the main focus of the site. Grates house lights to illuminate and highlight the stage, as well as provide site drainage.

An inter-active kiosk will allow visitors to explore the history of Bluefield and the impact coal and the railroad had on the area.





Projects E.T. Boggess, Architect Inc.

Governmental - New Construction:

- Coal Heritage Trail Interpretive Center (Historical Re-creation), Bramwell, WV
- Railroad Museum (Historical Recreation), Princeton, WV
- WV Tourist Information Center, Princeton, WV
- Mercer County Courthouse Annex, Princeton, WV
- Mercer County Health Center, Bluefield, WV
- WV Army National Guard Readiness Center, Elkins, WV
- WVDOH District 10 HQ Complex, Gardner, WV
 - Office Building
 - Maintenance Building
 - Bridge/Sign Shop
 - Lab Building
- WVDOH District 6 HQ Complex, Moundsville, WV
 - Office Building
 - Maintenance Building
 - Bridge/Sign Shop
- WVDOH District 9 Office Building, Lewisburg, WV
- U.S. Social Security Offices for the GSA . . . Welch, WV Williamson, WV
- Municipal Building, Princeton, WV
- Mercer County EOS/911 Center, Bluefield, WV

Governmental - Additions and Renovations:

- Princeton Public Library, Princeton, WV
- Greenbrier County Convention and Visitors Center, Lewisburg, WV
- Pipestem State Park Conference Center, Pipestem, WV
- Mercer County Memorial Building, Princeton, WV
- Mercer County Courthouse Improvement & Energy Upgrades, Princeton, WV
- Hatfield McCoy Trail Authority
 - Lyburn office
 - Bramwell Trailhead
- Nicholas County Judicial Annex (Imagery), Summersville, WV
- U.S. Social Security Offices for the GSA, Bluefield, WV
- Mercer County Courtroom for the new judge, Princeton, WV
- Division of Motor Vehicles, Welch, WV
- Department of Health & Human Resources, Welch, WV
- Rupert Public Library, Rupert, WV
- Summers County Health Center, Hinton, WV
- Mitchell Stadium ADA Upgrades, Bluefield, WV

Recent Similar Project Experience



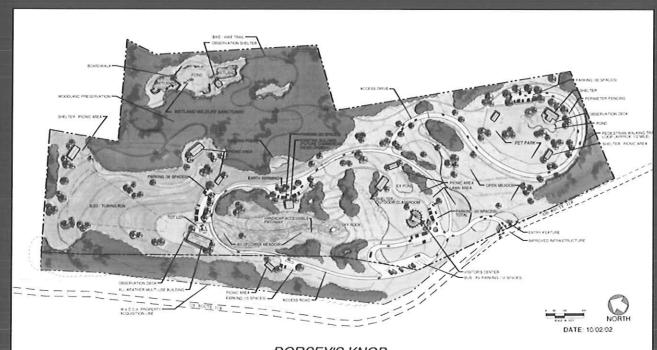


Harveytown Park

TERRADON Corporation was responsible for the Master Planning of a neighborhood park for the City of Huntington that included two trails.

- » Master Planning
- » Design
- » Landscape Architecture
- » 1.5 mile connector trail into existing park system trail
- » ¼ mile loop trail around park
- » Construction layout
- » Grading
- » Erosion
- » Utilized subcontractor for vertical architecture
- » Project management
- » Construction Budget Estimating for Grant Preparation





DORSEY'S KNOB
MORGANTOWN, WEST VIRGINIA
MASTER PLAN
BOARD OF PARK & RECREATION COMMISSIONERS

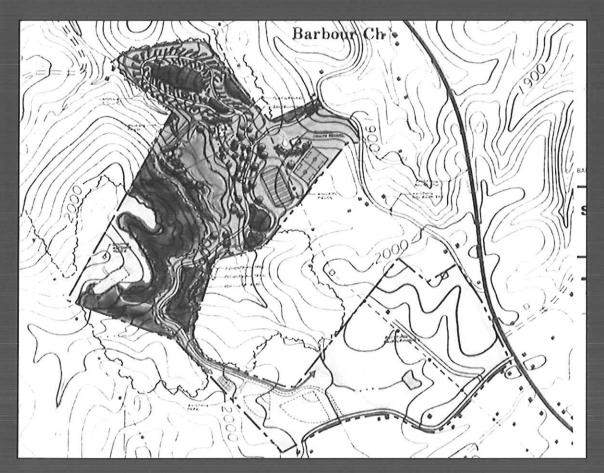
IERRADON

Dorsey's Knob

TERRADON Corporation was responsible for the Master Planning of a park system in Morgantown, WV.

- » Master Planning
- » Design
- » Landscape Architecture
- » ADA compliant trail system
- » Construction stakeout
- » Grading
- » Erosion
- » Project management
- » Construction Budget Estimating for Grant Preparation



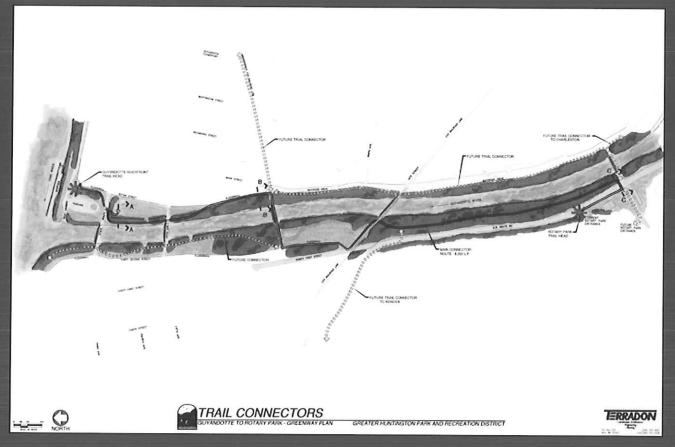


Barbour County Park

TERRADON Corporation was responsible for the Master Planning of a park system in Barbour County, WV that included a combination trail system (walking/biking/equestrian).

- » Master Planning
- » Design
- » Landscape Architecture
- » ADA compliant trail system
- » Construction stakeout
- » Grading
- » Erosion
- » Project management
- » Construction Budget Estimating for Grant Preparation

IERRADON



Gyandotte to Rotary Park

TERRADON Corporation was responsible for the Master Planning of a park system for the Huntington Parks and Recreation District. The plan included a 1.5 mile trail connecting the Gyandotte riverfront to Rotary Park. The plan utilized an old railroad bridge.

- » Master Planning
- » Design
- » Landscape Architecture
- » ADA compliant trail system
- » Construction stakeout
- » Grading
- » Erosion
- » Project management
- » Construction Budget Estimating for Grant Preparation

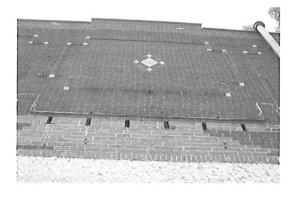
SECTION FOUR

Historic Preservation Services

Historic Preservation Services E.T. Boggess, Architect, Inc.

ETB has assisted in the preservation, restoration, adaptive re-use, and recreation of a number of historical buildings and sites throughout our region. We have an excellent relationship with the State Historic Preservation Office (SHPO) and have worked with them on projects already designated as historical, as well as successfully achieving historic designation for other projects. The Historic Tax Credit program and State Development Grants have been vital to assist private individuals and local governments in their efforts to preserve these unique structures.

The following information highlights a few reasons why a client may need specific historic preservation services, summarizes the experience that person needs to have, and lists a few tasks that will need to be accomplished.



Why a Client May Need These Services

- To conform to local historic preservation regulations
- To qualify for tax incentive programs for historic properties
- To promote community revitalization or tourism
- To demonstrate support for historic preservation interests

Knowledge and Skills Required

- Fundamental architectural knowledge and skills
- Knowledge of historic building styles, interiors, and landscapes
- Knowledge of historic construction methods and materials
- Familiarity with preservation technologies and techniques
- Research and investigative skills
- Knowledge of government historic preservation tax and grant programs

Representative Process Tasks

- Define project goals and assemble project team
- Determine significance and condition of property
- Determine applicable regulations
- Research history of property and document existing conditions
- Develop design concept and cost estimate
- Develop final design
- Participate in construction procurement and construction phases

SECTION FIVE

Resumes

Todd Boggess, AIA, NCARB, Architect President E.T. Boggess, Architect Inc.



EDUCATION:

Master of Architecture, Clemson University School of Architecture

International Studies, Clemson University Daniel Center for Urban Design & Building Studies, Genoa, Italy

Bachelor of Arts Degree in Design, Clemson University School of Architecture

RESPONSIBILITIES:

Todd joined ETB as a project architect and office manager in 1988 after graduating from Clemson University. In January, 2001, he assumed the office of President.

Todd is responsible for . . .

- architectural design and development
- project management and coordination
- computer aided design and visualization
- interior design
- site planning

Your project will receive his complete attention, from the interview and project meetings, through the construction process. As the president of the firm, you are putting your trust in him and he takes that commitment very seriously. He wants to make sure you are satisfied with our service, performance, and design.

PROJECTS:

Todd has been very involved in the historic preservation and renovation of many of the Princeton downtown buildings. He has worked closely with Michael Gioulis and served with him on the Board of Directors of the WV Preservation Alliance for several years. Todd has also designed "re-creations" of several landmark buildings and makes every effort to be as sensitive and accurate in his representation of these historically significant buildings as possible. He will take great care to ensure that the charm and atmosphere of the Dearing Building and Mt. Hope historic district is preserved for future generations to appreciate.

The Renovation of the Princeton Public Library project, which was designed by Todd, recently won the AIA WV Honor Award for the best renovation design in the state this year.



Princeton Public Library

Todd Boggess, AIA, NCARB, Architect President E.T. Boggess, Architect Inc.

PROJECTS - Historical Preservation & Re-creations:

- Coal Heritage Trail Interpretation Center, Bramwell
- Railroad Museum, Princeton
- Princeton Public Library (Remodeling former USPO)
- Richwood Train Depot/Visitors Center (Renovations)
- Greenbrier Convention & Visitors Center (Adaptive reuse), Lewisburg
- Princeton Caboose Relocation & Historical Renovations
- Mercer County Courthouse (Energy Upgrades and Improvements), Princeton
- Mercer County War Memorial Building (Renovations), Princeton
- Princeton Industrial Park (Railyards Preservation/Tax Credits)
- Hatfield/McCoy Trailhead Visitors Center (Renovations), Bramwell

PROJECTS - Downtown Renovations:

- East Mercer Street, Princeton
 - New lighting
 - Streetscape renovations
 - o Farmer's market
 - o Railroad Museum
 - Industrial Park Access Road

Downtown Bluefield

- New lighting
- Streetscape renovations
- Chicory Square Coal Interpretive area
- Technology Infrastructure Loop

PROJECTS - Public Buildings:

- West Virginia Tourist
 Information Center, Princeton
- Mercer County Courthouse Annex, Princeton
- WVDOH District 10 Headquarters Office Complex, Gardner
- WVDOH District 6 Headquarters Office Complex, Moundsville
- WVDOH District 9 Office Building, Lewisburg
- The Summit Bechtel Family National Scout Reserve (multiple projects), Fayette County, WV

AWARDS:

January 2011, E.T. Boggess. Architect, Inc., received the 2011 Excel Award from the Princeton/Mercer County Chamber of Commerce for Excellence in Community and Business Leadership. Todd was selected as one of West Virginia Executive Magazine's "Young Guns" in the fall of 2003. He was also selected as "Citizen of the Year - 2000" by both the Chamber of Commerce and the Princeton Elks Club for his efforts in creating opportunities for new business and improving our overall community.



EDUCATION:

Bachelor of Science Design Clemson University

Master of Architecture Clemson University

RESPONSIBILITIES:

With over 26 years of experience in all phases of design and construction, Mr. Mackey brings strong design, management and leadership skills to the firm. His significant experience has enabled him to successfully oversee the design and construction of a number of large government projects. Specific project responsibilities include:

- code review and analysis
- program development
- master plan development
- conceptual design
- design visualization
- project management
- project coordination
- construction specifications

PROJECTS:

Mr. Mackey rejoined ETB Architects in 2009 after serving as Executive Vice President for two Florida Architectural firms. During his absence, Mr. Mackey served as project manager on several large school projects in the state of Florida. In addition to his design and project management responsibilities, Mr Mackey also directed the day to day operations and management of the firm.

PROJECTS - Public Buildings:

- Mercer County Health Department, Green Valley
- Advantage Valley Advanced Technology Center for the WV C&TCS, Kanawha County
- North Central Advanced Technology Center for the WV C&TCS and Allied Health, Fairmont
- New River Community and Technical College Headquarters and Allied Health Building, Beckley
- Greenbrier County Schools
 - Greenbrier West High (Renovations)
 - Lewisburg Elementary (New)
 - Rainelle Elementary (New)



Mercer County Health Department

Roy Morum, LEED G. A.

Project Manager

E.T. Boggess, Architect, Inc.



EDUCATION:

Bachelor of Architecture University of the Orange Free State, South Africa

Master of Design Management UNITEC Auckland, New Zealand

RESPONSIBILITIES:

Roy joined ETB in 2004 as a project architect. His area of expertise is in design, documentation, and information management. His will be responsible for the ftp site that we will create to share project information. Before joining ETB, Roy completed major works in South Africa and New Zealand. His work in the USA includes government facilities for the West Virginia Army National Guard and other public buildings.

Roy's Master's Dissertation, "A Model for Knowledge Management in an Architectural Enterprise" deals with effective communication and creative project / information / data management.

He has developed processes and skills in this field that contribute much to the successful outcome of a project - and the continued facilities maintenance of a building.

Roy is responsible for . . .

- planning/programming
- construction documentation
- coordination of other disciplines
- ftp site design and implementation
- information management
- responding to contractor's requests for information
- reviewing submittals and shop drawings
- site visits/construction administration
- overall project management

PROJECTS:

Roy's expertise in project management and communication is reflected in his use of technology to enhance the delivery process via the internet and FTP. His mastery of information management systems will ensure that team members, contractors, and your representatives will be able to share ideas efficiently and cost effectively.

PROJECTS - Public Buildings:

- The Summit Bechtel Family National Scout Reserve
- WVARNG Readiness Center, Elkins, WV
- Mercer County Health Center, Green Valley, WV
- Four Seasons YMCA, Tazewell, VA
- Mathena Cultural Arts Center, Princeton, WV



EDUCATION:

Bachelor of Science, Eng. - Arch. Fairmont State University

Master of Architecture (May, 2009)
Boston Architectural College

RESPONSIBILITIES:

Mr. Turner joined ETB in 2009 and brought with him a wealth of experience in architectural design, as well as construction methods and practices. His prior experience with educational facilities has already proven extremely valuable as we have several elementary, middle, and high school projects at various stages of completion. Nathan obtained LEED certification last year and will assist in efforts to provide a "green" approach to as many projects as possible.

Specific project responsibilities include:

- architectural programming
- construction documentation
- design visualization
- project management

- project coordination
- construction specifications
- construction administration

PROJECTS - Public Buildings:

- The Summit Bechtel Family National Scout Reserve
- Advantage Valley Advanced Technology Center for the WV C&TCS, Kanawha County
- North Central Advanced Technology Center for the WV C&TCS and Allied Health, Fairmont
- New River Community and Technical College Headquarters
 & Allied Health Building, Beckley
- WV Council for Community and Technical College Education -Facility Programming
- Rainelle Elementary School for Greenbrier County
- Lewisburg Elementary School for Greenbrier County
- Greenbrier West High School Addition/Renovations for Greenbrier County
- Eastern Greenbrier Middle School Gym Addition for Greenbrier County
- PikeView Middle School, Mercer County



Greenbrier West High School Addition/Renovation



Chris Canterbury, Associate AIA

Construction Admin. Manager E.T. Boggess, Architect, Inc.



EDUCATION:

Bachelor of Science Engineering Technology/Architecture Fairmont State University

RESPONSIBILITIES:

Chris joined ETB in 2000 as a CADD Technician. His focus in recent years has been project administration and his current position of Construction Administration Manager reflects that area of expertise. Your project will benefit from his superb organizational skills. He attends meetings and keeps track of your needs and wishes through notes and minutes. His timely response to submittals will ensure that your project stays on its construction schedule.

Chris is responsible for . . .

- construction documentation
- organizing and attending meetings
- distribution of minutes and progress reports
- contacting material suppliers
- responding to contractor's requests for information

- reviewing submittals and shop drawings
- construction administration
- site visits/observations

PROJECTS - Public Buildings:

During the construction of the Mercer County Courthouse Annex, monitored the budget very closely. He distributed updated amounts at the monthly meetings with the building commission and was instrumental in keeping the project under-budget. He will be just as diligent with the budget for your project as well.

- Princeton Public Library (Renovations/Adaptive Re-use), Princeton
- **Greenbrier Convention &** Visitors Center (Renovations/Adaptive Re-use) Lewisburg
- Railroad Museum, Princeton
- Rahall Technology Center at Concord University, Athens
- Mercer County Courthouse Annex, Princeton



Princeton Public Library

KEY PERSONNEL

Gregory D. Fox, ASLA, LEEP AP Department Head—Land Development



Fox has been responsible for hundreds of notable commercial, educational and recreational site development projects during his 23-year career. During his time as Land Development Department Head, TERRADON has earned Engineering Excellence Awards from the West Virginia Association of Consulting Engineers, numerous Merit Awards from the American Society of Landscape Architects, and the Gold Award from the American Council of Engineering Companies.

Education

- » B.S. Landscape Architecture West Virginia University
- » B.A. Geography & Planning West Virginia University

Work Experience

- » 2000-Present TERRADON Corporation
- » 1996-2000 Martin Boal Anthony & Johnson Architects
- » 1993-1996 Site Design
- » 1989-1993 EG&G Inc
- » 1988-1989 PSC Engineers

Registrations

- » Landscape Architect: WV, OH, NC, SC, PA, VA
- » LEED AP
- » American Society of Landscape Architects
- » National Council on Landscape Architectural Registration Boards

Relevant Project Examples

- » Mingo Central High School Responsible for Site Design, Utility Design, Drainage and Layout for the New Mingo Central High School.
- » Fountain Place Plaza Responsible for Site Design, Utility Design, Grading and Drainage for the first two phases of Fountain Place Plaza in Logan County, WV.
- » Southridge Center Business Park Responsible for Master Planning for business park and shopping center along Corridor G near South Charleston, WV. Provided Site Design, Utility Design, Grading and Drainage.
- » Lenore Business Park Responsible for Master Planning for Lenore Business Park in Mingo County, WV, including site design and layout, and conceptual overview.
- » Jackson's Crossing Industrial Park Responsible for Master Planning, Site Layout and Design, Schematic Renderings, Parcel Identification, Feasibility and Cost Analysis.
- » Huntington Business Park Responsible for Master Planning and Land Development Services including Schematic Renderings, Feasibility and Cost Analysis.

KEY PERSONNEL

K. Davis Fennell, P.E.

Project Manager



Over sixteen years of Civil and Environmental Engineering experience in industry, land development, and municipal public works, including the last thirteen years as a consultant in southeastern North Carolina servicing the public works and land development needs in both the public and private sector. These services include master planning, roadway design, gravity sanitary sewer collection system design, sanitary sewer pump station and force main design, pressure sanitary sewer system design, water distribution system modeling and expansion design, storm drainage system collection and retention/detention design, storm water and erosion control design, along with permitting, construction administration, and compliance monitoring in all areas.

Education

- » B.S. Civil Engineering—1994 North Carolina State University
- » B.S. Environmental Engineering
 -1994
 North Carolina State University

Work Experience

- » 2011 Present TERRADON Corporation
- » 2007 2011 Coast Line Engineering, PLLC Owner and Sole Proprietor
- » 1998-2007 Cape Fear Engineering, Inc. Principal Engineer
- » 1997-1998 McKim and Creed Engineers Engineer in Training
- » 1994-1997 Martin Marietta Materials, Inc. Environmental Engineer

Affiliations

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

Registrations

» P.E.: West Virginia» P.E.: North Carolina» P.E.: South Carolina

Relevant Project Experience

- » WVHEPC Advanced Technology Centers Provided site grading, erosion and sediment control, and utility design for two West Virginia Higher Education Policy Commission Advanced Technology Centers located in Fairmont, WV and South Charleston, WV respectively.
- » WV K-12 Educational Facilities Provided site civil engineering on multiple k-12 education facilities throughout West Virginia. Engineering activities include utility and drainage design, site layout, grading and design. Facilities include school additions, new school construction and athletic fields.
- » Beckley Veteran's Affairs Parking Garage Site civil engineering design for a four-story parking garage located in Beckley, West Virginia. Project activities include utility and drainage design, permitting, site grading and general engineering design.
- Sheetz Services Centers Provided engineering design and construction documentation for Sheetz Service Centers in various locations throughout West Virginia. Projects consisted of site layout and design, utility design, drainage layout and design.
- » Putnam County Commission Engineering Design Provided engineering support on a number of Putnam County West Virginia projects, including engineering layout and design for a new traffic flow pattern and drainage design for a Valley Park Master Planning project. Additionally, provided engineering design support for a number of public/private waterline extension projects, and school utility projects. Fennel provides engineering design on k-12 school projects in Putnam County, WV.

>>

KEY PERSONNEL

Robert Thaw, PS

Department Head: Survey and Mapping



Mr. Thaw is Manager of Surveying Services for TERRADON. He organizes and supervises survey crews; designs commercial sites for drainage, building site locations, parking and utility easements; reviews project plans; and creates base mapping. Mr. Thaw has more than 22 years of experience in a wide range of land surveying applications. He is experienced with the day-to-day operation of the business and management of personnel.

Education

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

Work Experience

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

Registration

» Professional Surveyor, West Virginia

Relevant Project Experience

- » Hillsville Bypass, 2008
 Mr. Thaw coordinated office and field crews and reviewed the data for: cross sections, grade stakes and quantities. The Hillsville Bypass project had four million yards of material to be excavated. The project duration was 1.5 years. Both conventional and GPS equipment was
 - duration was 1.5 years. Both conventional and GPS equipment was utilized layout. Trimble 5800 base receivers and repeaters were transmitting corrections the two rover units.
- » Fairmont Connector 2009-Present Mr. Thaw coordinated the office and field crews for the Fairmont Interchange Connector. The project included demolition of buildings, sidewalks construction, MSE walls, bike path, and bridge. Gps and total stations are currently being utilized on the project. Mr. Thaw supervises the control work, grade stakes, slope staking, and office computations.
- » Paden City water service study, Paden City WV. Terradon was a subcontractor responsible for complete water service as-built. The project consisted of approximately 13 miles of water line to be mapped and cataloged. Responsible for all survey aspects and mapping
- » Underground utility as-built for all of Southridge Centre, Dudley Plaza, Trace Fork, and Nitro Market Place. As-built of all underground utilities including storm sewer. The scope included horizontal location, vertical location, and connectivity. The all underground information was compiled, reconciled, and shown in tabular form in AutoCAD. Responsible for all survey aspects and mapping.
- » Martinsburg Drainage Study, Martinsburg, WV. TERRADON Corporation was contracted by WVDOH to perform a drainage study for the City of Martinsburg, WV. The project involved the development of a comprehensive drainage study comparing pre and post development conditions. TERRADON performed aerial photography, mapping, right-of-way and as-built storm sewer system as part of the contract. Responsible for coordination aerial mapping, GPS control, field location and AutoCAD mapping.



SECTION SIX

Signed Documents



DATE PRINTED

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

Solicitation

NUMBER.

PAGE

CHA12017

ADDRESS CORRESPONDENCE TO ATTENTION OF:

CONNIE HILL 304-558-2157

COAL HERITAGE TRAIL AUTHORITY NATIONAL COAL HERITAGE AREA AU POST OFFICE BOX 5176 104 WILSON STREET BECKLEY WV 25801-5176 304-256-6941

RFQ COPY TYPE NAME/ADDRESS HERE E.T. Boggess, Architect, Inc. 101 Rockledge Avenue Princeton, WV 24740

BID OPENING DAT		2/2012		RTD (PENING TIME		
LINE	QUANTITY	CAT.	The second of th	JMBER	UNIT PRICE		AMOUNT
LINE	THE WEST VI THE COAL HE EXPRESSIONS ENGINEERING ADAPTIVE RE MOUNT HOPE, PRETIVE AND AND NATIONA INCLUDE OFF AUTHORITY,	EXPRESSION RGINIA PURCE RITAGE HIGH OF INTERES DESIGN SER USE OF A HI WEST VIRGI VISITOR CE L COAL HERI ICE SPACE F VISITOR SER SNACK BAR F	OF INTERCLIASING DINAY AUTHORY FOR PRODUCES FOR STORIC STORIC STORIC STORIC STORIC STORIC FOR THE CONTROL OF TH	REST VISION FOR THE REST RUCTURE PURPO THE COAL PROJECT STROOMS	FOR THE AGENC	CY, JRAL OF CER- CAIL	AROUN
			W 10 00	10 70 1	20 DM		
	**BID CLOSI	NG DATE: JU	ту ту, 20	12 AT 1	30 PM		
		PURCHASING 2019 WASHIN CHARLESTON,	GTON STRE	ET, EAST			
001		JB	906-00-00	-001			
,	1		100 00 00				
i	ARCHITECT/EI	IGINEERING	SERVICES,	PROFES\$	IONAL		
i i	TRUCTURE IN ND VISITOR	MT. HOPE, CENTER FOR	WV TO BE THE COAL	USED AS HERITAGI THE ATT	OF A HISTORI AN INTERPRE E TRAIL AND ACHED SPECIF	ICA-	July 10, 2012
TLE TLE	President	FEIN 55-051	5917		ADDRESS CH	ANGES T	O BE NOTED ABOVE
	\ \ \			AND ADDRE	SS IN SPACE ABO	VE LAB	ELED 'VENDOR'



DATE PRINTED

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charles by 100 5205 0420 Charleston, WV 25305-0130

Solicitation

NUMBER :

PAGE

CHA12017 ADDRESS CORRESPONDENCE TO ATTENTION OF:

CONNIE HILL 304-558-2157

RFQ COPY TYPE NAME/ADDRESS HERE E.T. Boggess, Architect, Inc. 101 Rockledge Avenue Princeton, WV 24740

COAL HERITAGE TRAIL AUTHORITY NATIONAL COAL HERITAGE AREA AU POST OFFICE BOX 5176 104 WILSON STREET BECKLEY WV 25801-5176 304-256-6941

ATTACHED DOCUMENTS: 1. EXPRESSION OF INTEREST 2. INSTRUCTION TO VENDORS SUBMITTING BIDS 3. GENERAL TERMS & CONDITIONS 4. ADDITIONAL TERMS & CONDITIONS FOR ARCHITECTURAL AND ENGINEERING SERVICES 5. CERTIFICATION & SIGNATURE PAGE 6. ADDENDUM ACKNOWLEDGEMENT FORM 7. PURCHASING AFFIDAVIT ****** THIS IS THE END OF RFQ CHA12017 ****** TOTAL:		07/12/	1	CAT.	- H20766 N		1 The same and the	AMOUNT
ATTACHED DOCUMENTS; 1. EXPRESSION OF INTEREST 2. INSTRUCTION TO VENDORS SUBMITTING BIDS 3. GENERAL TERMS & CONDITIONS 4. ADDITIONAL TERMS & CONDITIONS FOR ARCHITECTURAL AND ENGINEERING SERVICES 5. CERTIFICATION & SIGNATURE PAGE 6. ADDENDUM ACKNOWLEDGEMENT FORM 7. PURCHASING AFFIDAVIT ****** THIS IS THE END OF REQ CHA12017 ****** TOTAL:	LINE	QUANTITY	UOP	No.	ITEM NUI	IBER	UNIT PRICE	AMOUNT
		ATTACHED DOC	IMENTS	 3. 4. 6. 	EXPRESSION INSTRUCTOR TING BIDS GENERAL TANDITION FOR ARCHOENGINEERS CERTIFICADDENDUM	ON OF INCOME OF INCOME. OF INCOME.	VENDORS SUBMIT- CONDITIONS & CONDITIONS AL AND VICES SIGNATURE PAGE LEDGEMENT FORM	
	1	***** THIS	IS TH	E ENI	OF RFQ	CHA120)17 ***** TOTAL:	
	- 1 -		1277 12 - 127			277		
1 (487 A) 117 - 401 X X X X X X X X X X X X X X X X X X X		(IX)			· · · · · · · · · · · · · · · · · · ·			



WV PURCHASING ACA SECT Fax 304-558-4115 Jul 9 2012 11:21am P001/012 Solicitation State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

CHA12017

CONNIE HILL 304-558-2157

ADDRESS CORRESPONDENCE TO ATTENTION OF

RFQ COPY TYPE NAME/ADDRESS HERE

> E.T. Boggess, Architect, Inc. 101 Rockledge Avenue Princeton, WV 24740

COAL HERITAGE TRAIL AUTHORITY NATIONAL COAL HERITAGE AREA AU POST OFFICE BOX 5176 104 WILSON STREET BECKLEY WV 25801-5176 304-256-6941

07/09/ BID OPENING DATE] 07/12/	2012			B.I	רח (OPENING T	TME 1	:30PM	
	QUAI	ynty.	UOP	CAT. NO	TT.	EW NOWEER		UNIT P	*************	AM	TAUK
-			AD	DENDU	M NO.	1					
	2. ADI	LICITA DENDUM TURNED	TION. ACKN WITH	OWLED YOUR	GEMENT BID.	' IS ATTA	CH.	CEIVED FO ED AND SH RETURN M	OULD BE		
·								5			
0001		1	ЈВ	1		-00-001				•	
	ARCHITE	CT/EN	FINEE	RING	ERVIC	ES, PRÓF	ESS	IONAL	204 8080 Los cos F F	/2./**/************	
SIGNATURE	Doess	Ø,				TELEPHONE	30	4-425-4491	GATE	July 10, 2012	<u> </u>
TITLE	President FEIN 55-0515917								TO BE NOTED	ABOVE	

CERTIFICATION AND SIGNATURE PAGE CHA12017

By signing below, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

E.T. Boggess, Ar	chitect, Inc.
(Company)	
College Bury	& President
(Representative Name, Lin	e)
304-425-4491 (ph) /	304-425-2028 (fax)
(Contact Phone/Fax Number	er)
July 10, 2012	
(Date)	

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: CHA12017

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:

Addendum No. 5

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that 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.

Addendum No. 10

Company
Authorized Signature
July 10, 2012

Date

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

RFQ No.	CHA12017
111 00 1101	

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:

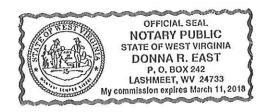
"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due 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.

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

E.T./Boggess, Architect, Inc. Vendor's Name: Date: July 10, 2012 Authorized Signature: (West Virginia State of Mercer , to-wit: County of Taken, subscribed, and sworn to before me this 10th day of July , 20 12 , March 11 , 2018 . My Commission expires NOTARY PUBLIC Donna R. Gost **AFFIX SEAL HERE**



WITNESS THE FOLLOWING SIGNATURE