



***Proposal to provide***

**Architectural/Engineering Services  
Capitol Campus Security Project  
GSD126428**

**WV Department of Administration  
General Services Division**

*submitted to:*

**Ms. Krista Ferrell, Buyer Supervisor**  
WV State Purchasing Division  
Post Office Box 50130  
Charleston, West Virginia 25305-0130

*submitted by:*

**Michael Baker Jr., Inc.**  
5088 Washington Street West  
Charleston, West Virginia 25313

**Baker**

*Creating Value ... Delivering Solutions.*

February 9, 2012

RECEIVED

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WV PURCHASING  
DIVISION

The Baker logo consists of the word "Baker" in white, sans-serif font, centered within a solid blue rectangular background.

**Michael Baker Jr., Inc.**  
*A Unit of Michael Baker Corporation*

5088 West Washington Street  
Second Floor  
Charleston, WV 25313

304.769.0821 Phone  
304.769.0822 Fax

February 9, 2012

Ms. Krista Ferrell, Buyer Supervisor  
State of WV Department of Administration, Purchasing Division  
2019 Washington Street East  
Charleston, West Virginia 25305-0130

**RE: Expression of Interest to Provide Architectural / Engineering Design Services  
GSD12428 – Capitol Campus Security Project**

Dear Ms. Ferrell:

Michael Baker Jr., Inc. (Baker) is pleased to respond to the Request for Expression of Interest for the design of perimeter security measures for the West Virginia Capitol Campus. Michael Baker Jr., Inc. (Baker), Charleston WV office, has the combined skills and experience required to address this important project for the General Services Division.

Baker is ideally suited for this campus security project. Our Principal, Project Manager and staff are very familiar with the Capitol Complex having recently completed historic research, a survey of utilities and an existing conditions assessment of the West Virginia Capitol Master Plan. With our diverse areas of expertise, we will bring all of the required professional expertise to the project without the need for any subconsultants.

We have reviewed the terms and conditions of this Expression of Interest as set forth by the Purchasing Division, and will fully comply. It is understood that the vendor relationship is that of an independent contractor. The term of contract is 12 months and may be renewed, as necessary, to obtain a new contract or to complete the work. Insurance coverage at the appropriate levels is in place. No price or fee was requested or permitted, and none has been included. The Purchasing Affidavit has been provided indicating that no debit is owed to the state. Baker's business and professional licensing is in place. Confidentiality in the preparation of this EOI is certified. There is no conflict of interest, no gratuities have been extended, and we have engaged in no lobbying efforts. All required forms are included herewith for this EOI response.

We appreciate your consideration and would be pleased to respond to any questions and to participate in the interview process.

Sincerely,

**MICHAEL BAKER JR., INC.**

A handwritten signature in blue ink, appearing to read "Russell E. Hall", is written over the printed name.

Russell E. Hall, PE, PS

Assistant Vice President / Principal-In-Charge

*Creating Value ... Delivering Solutions.*





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

## Request for Quotation

RFQ NUMBER

GSD126428

PAGE

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ADDRESS CORRESPONDENCE TO ATTENTION OF:

KRISTA FERRELL  
304-558-2596

RFQ COPY

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DEPARTMENT OF ADMINISTRATION  
GENERAL SERVICES  
BUILDING 1 ROOM MB60  
1900 KANAWHA BOULEVARD, EAST  
CHARLESTON, WV  
25305-0123 304-558-2317

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BID OPENING DATE: 02/09/2012 BID OPENING TIME 01:30PM

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NO CONTACT BETWEEN THE VENDOR AND THE AGENCY IS PERMITTED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE STATE BUYER. VIOLATION MAY RESULT IN THE REJECTION OF THE BID. THE STATE BUYER NAMED ABOVE IS THE SOLE CONTACT FOR ANY AND ALL INQUIRIES AFTER THIS EOI HAS BEEN RELEASED.						
EXHIBIT 10						
REQUISITION NO.: GSD126428						
ADDENDUM ACKNOWLEDGEMENT						
I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.						
ADDENDUM NO.'S:						
NO. 1 X						
NO. 2 X						
NO. 3						
NO. 4						
NO. 5						
I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.						
VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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



State of West Virginia  
Department of Administration  
Purchasing Division  
2019 Washington Street East  
Post Office Box 50130  
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CHARLESTON, WV  
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 SIGNATURE						
Michael Baker Jr., Inc.						
COMPANY						
February 9, 2012						
DATE						
NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE EOI.						
REV. 09/21/2009						
BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.						
ANY INDIVIDUAL SIGNING THIS BID IS CERTIFYING THAT: (1) HE OR SHE IS AUTHORIZED BY THE BIDDER TO EXECUTE THE BID OR ANY DOCUMENTS RELATED THERE TO ON BEHALF OF THE BIDDER, (2) THAT HE OR SHE IS AUTHORIZED TO BIND THE BIDDER IN A CONTRACTUAL RELATIONSHIP, AND (3) THAT THE BIDDER HAS PROPERLY REGISTERED WITH ANY STATE AGENCIES THAT MAY REQUIRE REGISTRATION.						
NOTICE						
A SIGNED EOI MUST BE SUBMITTED TO:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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State of West Virginia  
Department of Administration  
Purchasing Division  
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# Request for Quotation

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304-558-2596

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DEPARTMENT OF ADMINISTRATION  
GENERAL SERVICES  
BUILDING 1 ROOM MB60  
1900 KANAWHA BOULEVARD, EAST  
CHARLESTON, WV  
25305-0123 304-558-2317

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
01/09/2012				

BID OPENING DATE:

02/09/2012

BID OPENING TIME

01:30PM

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
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				THE EOI SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE EOI MAY NOT BE CONSIDERED:  SEALED EOI  BUYER: KRISTA FERRELL-FILE 21  EOI. NO.: GSD126428  EOI OPENING DATE: 02/09/2012  EOI OPENING TIME: 1:30 PM  PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR EOI: 304-769-0822  -----  CONTACT PERSON (PLEASE PRINT CLEARLY): Russell E. Hall  -----		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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

GSD126428

RFQ No. \_\_\_\_\_

STATE OF WEST VIRGINIA  
Purchasing Division

## PURCHASING AFFIDAVIT

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

### DEFINITIONS:

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

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

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

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

### WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: Michael Baker Jr., Inc.

Authorized Signature: [Signature] Date: February 9, 2012

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 9<sup>th</sup> day of February, 2012

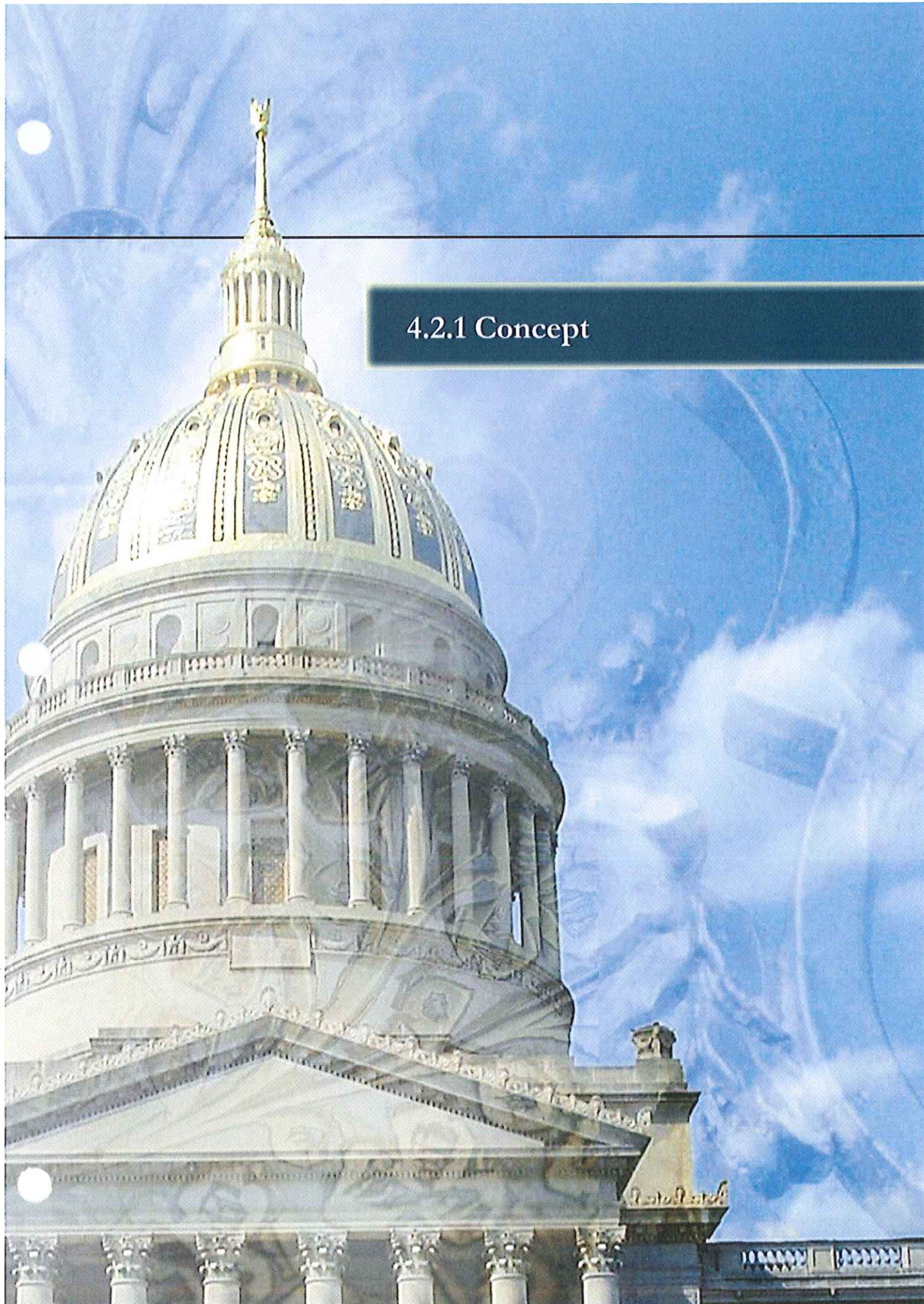
My Commission expires July 12, 2016

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NOTARY PUBLIC [Signature]







4.2.1 Concept



## Introduction

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The West Virginia Department of Administration, General Services Division (GSD) is seeking a highly-qualified firm experienced in planning, design and construction administration for the perimeter security measures at the West Virginia State Capitol that are both functional and architecturally compatible with the existing facilities. Michael Baker Jr., Inc. (Baker) is a highly-qualified firm with extensive experience in providing these types of services and we are extremely interested in continuing our professional relationship with the West Virginia Department of Administration, General Services Division.

To begin the process, we have reviewed the Request for Quotation and applicable portions of the Capitol Master Plan in order to familiarize ourselves with the project and to assess the existing conditions. We then assembled a team of skilled individuals specialized in security planning and design.

### 4.2.1. Concept

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*Provide a discussion of the project and the firm's approach to addressing issues and concerns including anticipated concepts, proposed methods of design and project sequence as explained in the Background, General Requirements, and Project Description.*

Public facilities have historically been recognized as open and accessible venues for the use of our citizens and government. It is a hallmark tradition of a representative government. These facilities are truly "the People's houses." However, many security challenges are faced by public facilities today, including extreme acts of violence, terrorist acts, and traditional criminal activity. Whether specifically directed at the government or individual citizens, all are part of the risk profile that threatens our public facilities.

Governments must establish a safe environment that does not give the public the feeling of entering an armed camp. A visit to a public facility should not be accompanied by fear, whether real or perceived. Such fear may create reluctance on the part of our citizens to visit these public facilities and participate or interact with our government. Government facilities can protect their citizens and employees while maintaining the openness and accessibility that is an American tradition. The lasting image of our public facilities should not be guards, checkpoints, barriers and weapons but of places that exemplify an open and strong society. Public facilities must perform their missions without creating an environment that promotes this public insecurity. The goal is to balance the need, both operationally and philosophically, to maintain accessibility to the public while achieving a responsible level of security.

### Design Considerations for State Capitol Complex, Capitol Campus Security Project

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**Proposed Approach.** The design of the new security measures should consider the principal tenants of CPTED; natural surveillance, access control and territorial reinforcement. Using these tools, and the recommendations of the WV National Guard, Baker will design the security enhancements, providing a positive and secure environment, establishing design aesthetics that are complementary to the historical environment, and appropriate for the vision and mission of the Capitol Campus. Programmatic components must consider required and efficient adjacencies that respond to its function and purpose. The designs need to provide visual control of the entire campus, manage any risk, be easily adaptable and relatively maintenance-free. The selected materials and systems must convey a sense of unity and connectivity with the look and feel of the adjacent buildings, and with the Capitol Campus as a whole.



Baker's proposed approach to this project will require a collaborative effort with the West Virginia General Services Division (GSD) the Protective Services Division, the Division of Homeland Security, the WV National Guard (WVNG) and the Baker Team to assess the project requirements, goals and the GSD's conditions of satisfaction for the project, and to balance the desired aesthetic effects with a safe and secure design. These topics, as well as the schedule and budget for the project, will be discussed at a project kick-off meeting (Committee Meeting 1), after which the Baker Team will commence the initial phase.

The initial phase involves an investigation of the existing site conditions, vehicular patterns and utilities. The evaluation of the campus will include a fringe survey of the adjacent neighborhoods surrounding the project area to develop an understanding of these communities, their functions and their risks. Based on our findings from this investigation and our understanding of the project programming, we will develop concepts and make recommendations to GSD for the design of the proposed perimeter security measures. These recommendations will be reviewed with the GSD (Committee Meeting 2) using plans, cut sheets, sketches and computer-generated drawings to communicate the visual effects of the proposed design.

Upon approval from the GSD of the design recommendations, Baker will proceed with Construction Documents. This phase will follow a specified process with established milestones for submittals and approvals in order to maintain target dates in accordance with the GSD's conditions of satisfaction. At the conclusion of the Construction Documents phase, drawings and specifications will be delivered to the client for bidding, procurement and construction of the work.

Baker will continue to support the GSD during the construction phase, answering bid questions, developing clarification sketches or other documents as necessary, providing periodic site observations, reviewing submittals, and answering RFIs (contractor's requests for information to clarify the design). The primary purpose of these activities is to assure the GSD that the construction is proceeding in accordance with the intent of the approved design.

The specific scope of services that support this approach is outlined below.

## Scope of Services

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### Phase 1, Existing Conditions Survey.

- **Existing Operational Policies.** Review the existing operational and security policies at the Capitol. Tasks will include the review of existing threat/risk assessments and/or studies prepared for the Capitol.
- **WV National Guard Study.** Review the recommendations of the study to become familiar with the scope and nature of potential threats, as well as provide intelligence to assist in the design of proposed security mitigation measures.
- **Surveying and Mapping.** Baker will conduct a topographic survey of the project location including street rights-of-way and various adjoining parcels of property. The survey will utilize an assumed coordinate system. If an existing vertical benchmark can be located, we will use this for elevations. If not, we will use an assumed elevation. West Virginia E911 aerial mapping will be utilized to further augment the base mapping task. Baker will establish a minimum of three horizontal and vertical control points for use during future construction phases. These points will be spaced along the project area in locations not anticipated for disturbance. Baker will prepare a site map using 2' contours in open areas with appropriate spot elevations at building thresholds, curbs, and sidewalk and pavement edges. The corners of existing buildings and the existing adjacent roads/bridges will be picked up, as well as existing features such as utility poles,

meters and other related structures, spot elevations at critical points, pavement changes, signage, and green spaces.

**Task 2, Schematic Design Phase**

- **Develop design criteria and preliminary design scheme.** Based upon the documented conditions, GSD and WVNG input and proper design practice, Baker will develop a proposed program of hierarchies, needs and related security criteria with respect to the following considerations:
  - Perimeter Security Elements including access control
  - Building Access Control including Screening/Scanning
  - Security Lighting
  - Electronic Surveillance
  - Intrusion Detection
  - AEDs and First Aid Stations
  - Security Operations Center and Security Post Equipment
- **Develop preliminary opinion of probable costs.** Baker will provide preliminary budgeting and prepare for presentation to GSD for review and approval.
- **Present Schematic design and preliminary budget.** Baker will meet with the GSD to review and discuss the design and verify the scope is within the established budget and requirements.

**Task 3, Design Development Phase**

**Design Development.** Refine the program and scheme to reflect findings in the schematic design and address ongoing GSD input. Develop 35 % construction plans and outline specifications based upon findings and standards adapted for the campus. Provide refined budgeting. This task will involve several iterations and interim reviews with the GSD to appraise the design evolution, gain consensus, and monitor the budget. All design components will be carried over from the Schematic Design Phase.

**Task 4, Construction Documents Phase**

- **Construction Documents.** Finalize the construction plans, specifications and budget based on the approval of the Design Development documents. Present for final review and approval.
- **Capitol Building Commission Review.** Final design documents will be submitted to the Capitol Building Commission (CBC) for approval. This Task includes modifications to the construction documents as requested by the CBC. Participation by the CBC is requested throughout the development of the plan to reduce any potential revisions.
- **Bidding.** Provide assistance to the GSD during bidding in preparation of addenda to clarify the design concept and evaluate with GSD bids received from contractors.

**Task 5, Construction Administration Phase**

- **Construction Submittals.** Review shop drawing and submittals for conformance to the design requirements.
- **Site Observations.** Provide periodic site observations to assure GSD the work is proceeding in accordance with the design intent. Verify installations for correct placement, aiming or orientation of devices to achieve the designated effects.
- **Requests for Information.** Answer requests from the Contractor to clarify design elements or address unanticipated field issues.
- **Applications for Payment.** Review Contractors' requests for payment for congruence with the actual installed work.
- **Project Closeout.** Develop closeout documents and punchlist at Substantial Completion.



## Quality Management Plan

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The guiding principles for the Quality Management Plan (QMP) are rooted in a Quality Policy, which has three essential tenets: Client Satisfaction Comes First; Prevention vs. Correction; and Quality is Foremost a Management Responsibility. Our Quality Process involves these three elements:

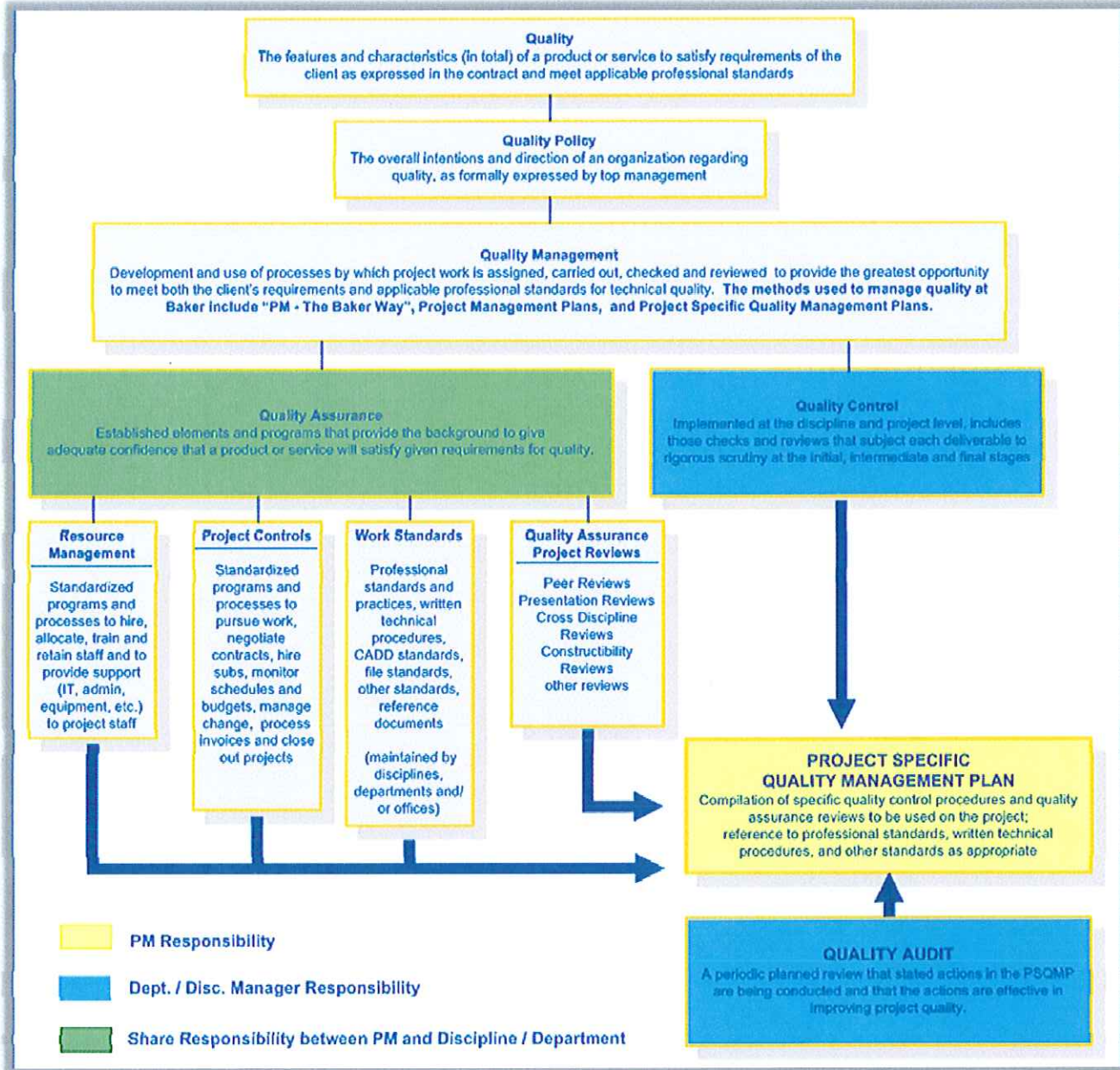
- **Quality Planning.** In the planning stage, we identify clients' program requirements, determine which quality standards apply, and determine what will be done to satisfy these program requirements.
- **Quality Assurance.** In this effort, we make sure that quality control efforts are taking place; we verify that efforts are producing the desired results, and we make adjustments to the processes as necessary.
- **Quality Control.** In this effort, we perform inspection directly on the product itself to determine if it meets the requirements developed in the quality planning stage. We also identify ways to eliminate causes of unsatisfactory results such as change orders created by errors and omissions.

Quality Planning is done up front. Quality Assurance and Quality Control are continuous over the life of the project. Prior to the start of work, Mr. Schoolcraft will develop the Quality Control Plan (QCP) as a part of the overall Project Management Plan. He will review the QCP with Quality Assurance/Control Officer, Mr. Bolen, and gain concurrence with the appropriate State representatives. Among other items, the QCP outlines all project procedures, routing of correspondence, design criteria, quality assurance and quality control procedures, and submittal requirements.

**Quality Control Procedures for Plans, Specifications, and Design Analysis, and Electronic Documents.** Our procedures consist of the following steps that are performed at specified milestones and submissions:

- **Intra-discipline Check.** Each discipline checks drawings, specifications, and design calculations for accuracy, as well as consistency, between the drawings and specifications when design revisions are made.
- **Independent Technical Review.** One or more appropriately skilled individuals will perform an Independent Technical Review of the documents on a discipline-by-discipline basis.
- The Quality Plan includes a **checklist of all design criteria and submittal requirements**. This checklist will be used by the Independent Review Team to be sure that the project criteria is met.
- **Construction cost estimates will be performed at each submission** and checked by the team's professional construction cost estimators. Designs will be adjusted or scopes and cost-cutting ideas will be discussed with the appropriate State representatives as the designs progress.
- **All electronic documents and files are stored** using a standard directory structure and all submissions are saved on DVDs to keep an accurate record of the project. If needed, Baker provides electronic bidding .pdf and .cal files. We plot and review the .cal files to verify conversions to match the CADD plots. All electronic documents are under the care of Baker's strict firewall and antivirus software policies.

The following chart represents the various stages and processes of Baker's quality program:









## 4.2.2 Firm/Team Qualifications





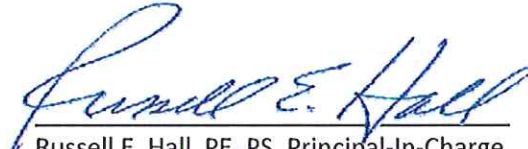
#### 4.2.2. Firm/Team Qualifications

- a. *Provide the name, address, phone number, e-mail address and signature of the firm's contact person responsible for the project and having full authority to execute a binding contract on behalf of the firm submitting the proposal.*

**Firm name and address:**

Michael Baker Jr., Inc.  
5088 West Washington Street, Second Floor  
Charleston, West Virginia 25313  
304-769-0821 (Phone)

**Contacts:**



Russell E. Hall, PE, PS, Principal-In-Charge  
304-769-2154 (Direct)

- b. *Provide the names, function and resume of individuals within the lead firm's organization who will be assigned to this project.*

Baker's team of professional and technical personnel will be led by Mr. Todd Schoolcraft, PLA, ASLA. Mr. Schoolcraft is currently involved with the Campus Master Plan effort for the State Capitol Complex. He and many of Baker's team members are intimately familiar with the state complex, including the need for the proposed Capitol Campus Security Project to serve the State of West Virginia's many employees. Mr. Schoolcraft is supported by a team of engineers, architects and landscape architects that are experienced with the policies, procedures and work processes of the State, as well providing services related to the proposed security enhancements.

Resumes for the Baker Team are provided at the end of this section. An organization chart is provided in Section 4.2.3 of this submittal, along with key personnel highlights.

- c. *The design team must have expertise in the area of architecture-engineering-security-landscape design services along with contract documents and specification preparation. Provide information on the other project consultants, subconsultants and firms proposed to be employed by the lead firm for this project.*

**Michael Baker Jr., Inc. (Baker)**, headquartered near Pittsburgh, Pennsylvania, employs over 3,250, maintains 110 offices and project locations domestically and internationally, and is publicly traded on the NYSE Amex exchange under the symbol, BKR. In 2009, the Company's continuing operations achieved total contract revenues of \$445.2 million. *Engineering News-Record (ENR)* magazine currently ranks Baker in the top 10 percent of the 500 largest U.S. engineering firms (currently 36th in *ENR's* Top 500 Design Firms) and in the Top 25 engineering firms in a variety of markets, including mitigation, security, planning, transportation, airports, highways, bridges, water supply, pipelines, environmental site assessments and telecommunications.

Baker's Charleston office located in Cross Lanes, West Virginia employs over 35 people with a variety of architectural skills ranging from architecture, interior design, mitigation, security, planning, mechanical, electrical and civil engineering, landscape architecture, structural engineering and surveying. All services required for the successful completion of this project will be provided using our in-house professionals. No



subconsultants are proposed as part of the Baker Team. However, if the State Department of Administration desires the addition of any particular subconsultant that will add value to the project, Baker remains open to discussing the addition of other supplementary service-providers.

#### **Expertise with Contract Documents and Specification Preparation**

Baker has, and routinely uses, AIA MasterSpec, Uniformat, SpecsIntact, and various other software packages, as required, in the preparation of specifications.

As an example of our experience with contract documents and specification preparation for the State of West Virginia, Baker is currently providing architectural, mechanical and electrical engineering, and cost estimating coordination with other team members for the renovation and rehabilitation of the existing historical West Virginia State Capitol's Restrooms. Baker is leading the effort to assess the facilities and their conformance to current code requirements and code-required capacities, compliance with Americans with Disabilities Act (ADA) requirements, quantification of the building occupancy during normal and peak periods, and other related services.

*d. Provide a statement of the firm's ability to handle the project in its entirety.*

Baker provides all of the traditional consulting services provided by design firms, including programming and planning; architecture and interior design; civil, structural, mechanical, plumbing, fire protection and electrical engineering; and communications systems design. But, beyond that, Baker provides expanded, truly full-service in-house delivery capabilities, including NEPA, environmental, and hazardous materials remediation, archeology, historic preservation, landscape architecture, virtual reality design, emergency response planning and management, and the full complement of program management and construction management services.

*e. Provide a statement of the firm's acceptance and full understanding that any and all work produced as a result of the contract will become property of the Agency and can be used or shared by the Agency as deemed appropriate.*

We understand and accept that any work produced as a result of this contract will become the property of The State of West Virginia, Department of Administration, and can be used or shared by the Agency as deemed appropriate.

*f. Provide a description of any litigation or arbitration proceedings, including vendor complaints filed with the State's Purchasing Division, disputes with other Agencies of the State of West Virginia that involved legal representation by either party relating to the firm's delivery of design services, if applicable. Also, any disputes with other Agencies of the State of West Virginia that involved legal representation by either party.*

Michael Baker Jr., Inc. (Baker) is involved in such claims, arbitration proceedings and suits as is typical for the work it performs. Baker's legal department may provide certain non-confidential details relating to any such individual matter after receipt of a specific written request. Baker is not involved with litigation or arbitration proceedings, including vendor complaints filed with the West Virginia Purchasing Division or disputes with other Agencies and the State of West Virginia that involved legal representation by either party relating to Baker's delivery of design services.

**R. Todd Schoolcraft, PLA, ASLA**

*Project Manager*

***General Qualifications***

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Mr. Schoolcraft has over 19 years of experience in the fields of landscape architecture and land planning, with over 27 years of experience in the building and construction industry. Mr. Schoolcraft has extensive experience managing complex projects and leading multi-disciplined teams of professionals resulting in the successful delivery of numerous quality projects on time and on budget. Major areas of specialty include commercial development, military installation design, land planning, public development, site planning and design, park and recreation design, trails and greenways, streetscape design and urban planning. Mr. Schoolcraft is a retired U.S. Army Officer, holding the rank of Major, with over 23 years of time in service in the U.S. armed forces. In the last years of service, he held the position of Operations Officer with the newly formed Chemical, Biological, Radiological, Nuclear or High Yield Explosive Enhanced Response Force Package Team (CERFP Team) with the West Virginia Army National Guard. Prior to this, he was a combat engineer with the Design Section of the 111th Engineer Group, West Virginia Army National Guard. The 111th Engineer Group served in the Middle East in support of Operation Iraqi Freedom and Operation Enduring Freedom. During that time, Mr. Schoolcraft was awarded the Bronze Star Medal for meritorious service associated with a multitude of engineering and architectural projects in Kuwait and Iraq. Mr. Schoolcraft has been appointed to the West Virginia State Board of Landscape Architects by Governor Joe Manchin, and currently serves as Secretary of the Board.

**Years with Baker: 5**

**Years with Other Firms: 16**

**Education**

B.S., 1991, Landscape Architecture, West Virginia University

**Licenses/Certifications**

Professional Landscape Architect, West Virginia

Registered Landscape Architect, North Carolina

Registered Landscape Architect, Ohio

***Relevant Experience***

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**Campus Master Planning and Architectural and Engineering Services for State Capitol Complex, Charleston, West Virginia.** *State of West Virginia General Services Division.* Landscape Architect. Responsible for master planning guidance, design, community meeting assistance, and document generation. Baker is providing comprehensive master planning services, plans and construction specifications, and construction administration for improvements to the historic West Virginia state capitol campus. Master planning services include plans for expansion, location of new buildings, pedestrian and traffic circulation, landscaping, utilities, and site security. Baker is also providing construction plans and contract administration services for some of the security and landscaping improvements.



**A/E Services for the Office of the Adjutant General, West Virginia Army National Guard, Division of Engineering and Facilities, Charleston, West Virginia.** *State Army National Guard Headquarters.* Landscape Architect. Responsible for design and document quality oversight. The Facilities Management Officer (FMO) for the State of West Virginia, Division of Engineering and Facilities (DEF), West Virginia Army National Guard (WVARNG) selected Baker for a lump sum/fixed fee contract for architectural and engineering services. Baker was selected by the Division of Engineering and Facilities to provide complete design and construction administration services for the renovation of the first floor of the entire wing of the Office of the Adjutant General (TAG). The Owner requested the need for modernization of approximately 12,000 square feet of existing outdated office space - project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, alterations to the existing floor plan, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal.

**West Virginia Army National Guard - Tag Wing Improvement, Charleston, West Virginia.** *State Army National Guard Headquarters.* Project Manager. Responsible for design and document quality oversight. Baker performed complete planning, design, and construction management services for renovations to the Office of the Adjutant General at the State Army National Guard Headquarters in Charleston, West Virginia. Project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, several new wall partitions, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal. Baker provided Construction Administration and inspection services as well as periodic site review during construction.

**Parsons City-Wide Comprehensive Parks and Recreation Master Plan, Parsons, West Virginia.** *Parsons Park Board, Inc.* Project Manager. Responsible for master planning design and document quality oversight. Baker prepared a Master Plan of improvements and recommendations for existing and proposed parks and recreation amenities for the City of Parsons, *West Virginia.* The City, over time, had acquired many parcels of FEMA-condemned properties due to the flood-prone topography of Parsons; in an effort to properly manage existing facilities, yet prepare for the future of the additional facilities scattered throughout the community, this master planning effort was begun. Through a series of public meetings and stakeholder meetings, a final plan was developed with recommendations for ball fields, hiking and biking trails, recreation center, miniature golf course, play structures, picnic facilities, ADA-compliant fishing access, interpretive signage, and landscaping improvements for existing and new park areas.

**Sidewalk Improvements, Parsons, West Virginia.** *City of Parsons, West Virginia.* Project Manager. Responsible for design and document quality oversight. Performed field inventory and analysis functions for the final design. Baker performed complete planning, design, and construction management services for new sidewalks and streetscape elements for various areas within the City of Parsons. The improvements included concrete sidewalks with integral concrete curbs, driveway curb cuts, ADA accessible curb ramps with truncated domes, ladder-style crosswalks, and storm water management, landscape beds and street trees, side street parking elements, and wrought iron park benches and trash receptacles. Baker provided Construction Administration and inspection services as well as periodic site review during construction.

## **Russell Hall, PE, PS**

*Principal-in-Charge*

### **General Qualifications**

Mr. Hall, Assistant Vice President, is Office Manager of Baker's Charleston, West Virginia office. He is an experienced engineer who has been involved in numerous design projects in West Virginia for over 25 years. His project management responsibilities involve overseeing staff from project inception through completion, and ensuring that the client needs and requirements are met. His strengths include organizing and managing project teams, quality control and quality assurance, and problem resolution. He provides overall direction and maintains direct communications with all clients.

**Years with Baker:** 7

**Years with Other Firms:** 18

#### **Education**

B.S., 1985, Civil Engineering, West Virginia University Institute of Technology

#### **Licenses/Certifications**

Professional Engineer, West Virginia

Professional Surveyor, West Virginia

### **Relevant Experience**

**Campus Master Planning and Architectural and Engineering Services for State Capitol Complex, Charleston, West Virginia.** *State of West Virginia General Services Division.* Principal-In-Charge. Responsible for oversight of the project management, project finances, schedules, and quality control. Baker is providing comprehensive master planning services, plans and construction specifications, and construction administration for improvements to the historic West Virginia state capitol campus. Master planning services include plans for expansion, location of new buildings, pedestrian and traffic circulation, landscaping, utilities, and site security. Baker is also providing construction plans and contract administration services for some of the security and landscaping improvements.

**West Virginia State Capitol Restroom Renovations.** *State of West Virginia General Services Division.* Principal-In-Charge. Responsible for oversight of the project management, project finances, schedules, and quality control. The design was for rehabilitating 31 restrooms in the historical West Virginia State Capitol building. Baker is leading a planning study for the renovation of 31 restrooms that will assess the facilities and their conformance to current code requirements and code-required capacities, compliance with Americans with Disabilities Act (ADA) requirements, quantification of the building occupancy during normal and peak periods, and an evaluation of gender distribution of restrooms within the Capitol. Baker will provide design, construction sequence and scheduling recommendations. Upon approval of the design, Baker will prepare construction documents and provide construction administration services for the renovation of three restrooms on the basement level.



**West Virginia Army National Guard - TAG Wing Improvement, Charleston, West Virginia.** *State Army National Guard Headquarters.* Principal-In-Charge. Responsible for oversight of the project management, project finances, schedules, and quality control. Baker performed complete planning, design, and construction management services for the renovations. Project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, several new wall partitions, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal. Baker provided construction administration and inspection services as well as periodic site review during construction.

**Sidewalk Improvements, West Milford, West Virginia.** *Town of West Milford.* Principal-In-Charge. Responsible for oversight of the project management, project finances, schedules, and quality control. Baker performed complete planning, design, and construction management services for new sidewalks along U.S. Route 270 (Main Street) for the Town of West Milford. The improvements included concrete sidewalks with integral concrete curbs, driveway curb cuts, ADA accessible curb ramps with truncated domes, "ladder-style" crosswalks and storm drainage design. Baker provided construction administration and resident inspection services as well as periodic site review during construction.

**Disaster Response and Recovery Plan, Charleston, West Virginia.** *Kanawha Valley Regional Transportation Authority.* Principal-In-Charge. Responsible for oversight of the project management, project finances, schedules, and quality control. Baker developed a disaster response and recovery plan for the Kanawha Valley Regional Transportation Authority (KVRTA), West Virginia's largest transit bus service provider. Baker facilitated stakeholder meetings to assess KVRTA's capabilities with regard to their anticipated role in regional emergency response plans. The new plan also includes Continuity of Operations Plan (COOP) elements and is compliant with the National Incident Management System (NIMS) and National Response Plan (NRP) objectives.

**U.S. 33 Streetscape Improvements, Phase II, Mason, West Virginia.** *Town of Mason.* Principal-In-Charge. Responsible for oversight of the project management, project finances, schedules, and quality control. Baker performed complete detailed design, construction document preparation, and construction management services for new sidewalks and storm sewer improvements. The improvements included concrete sidewalks with integral concrete curbs, driveway curb cuts, ADA accessible curb ramps with truncated domes, ladder-style crosswalks, storm sewer improvements, benches and trash receptacles. Baker provided construction administration and inspection services.

**Ron Bolen, RA, AIA, LEED® GA**  
QA/QC Officer

#### ***General Qualifications***

Mr. Bolen brings over 39 years of design and project management experience to the project. He focuses his time on design and coordination with the client while maintaining a close relationship with the design team. From the early planning stages to construction implementation, Mr. Bolen's projects are the result of collaborative problem solving with design team professionals and project stakeholders. Mr. Bolen is currently serving as architect for the West Virginia General Services Division's project for Campus Master Planning and Architectural and Engineering Services for the State Capitol Complex, and for the rehabilitation design of dozens of restrooms in the historic State Capitol building. Over the past decade, he assisted seven West Virginia counties in the development of comprehensive education facilities plans. This effort involved assessing the education facilities in each county, developing maintenance and repair plans and cost estimates, as well as ten-year facility plans. Mr. Bolen served as project lead programming and pre-design for several new projects on West Virginia University's Morgantown Campus.

**Years with Baker: 3**

**Years with Other Firms: 36**

#### **Education**

B.S., 1980, Architectural Design, Parkersburg  
Community College

#### **Licenses/Certifications**

Registered Architect, West Virginia  
LEED Green Associate

#### ***Relevant Experience***

**Campus Master Planning and Architectural and Engineering Services for State Capitol Complex, Charleston, West Virginia.** *State of West Virginia General Services Division.* Architect. Responsibilities include working in conjunction with the owner and a team of specialized subconsultants. Mr. Bolen is currently providing elements including master planning programming, architectural/review, document management, project scheduling, cost estimating, facilities planning, subconsultant management and client coordination. Baker is providing comprehensive master planning services, plans and construction specifications, and construction administration for improvements to the historic West Virginia state capitol campus. Master planning services include plans for expansion, location of new buildings, pedestrian and traffic circulation, landscaping, utilities, and site security. Baker is also providing construction plans and contract administration services for some of the security and landscaping improvements.

**West Virginia State Capitol Restroom Renovations.** *State of West Virginia General Services Division.* Architect. Responsibilities included coordination with the architectural team members (RMJM) and the mechanical/electrical staff for rehabilitating the existing historical West Virginia State Capitol Restrooms. Baker is leading a planning study for the renovation of 31 restrooms that will assess the facilities and their conformance to current code requirements and code-required



capacities, compliance with Americans with Disabilities Act (ADA) requirements, quantification of the building occupancy during normal and peak periods, and an evaluation of gender distribution of restrooms within the Capitol. Baker will provide design, construction sequence and scheduling recommendations. Upon approval of the design, Baker will prepare construction documents and provide construction administration services for the renovation of three restrooms on the basement level.

**West Virginia Army National Guard - Tag Wing Improvement, Charleston, West Virginia.** *State Army National Guard Headquarters.* Architect. Responsibilities included providing a complete design and construction administration services for architectural improvements of the first floor of the Office of the Adjutant General (TAG), and to provide MEP and HVAC design improvements for the entire TAG Wing, Headquarters Building, and Armory/Drill Floor. Baker performed complete planning, design, and construction management services for the renovations. Project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, several new wall partitions, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal. Baker provided construction administration and inspection services as well as periodic site review during construction.

**A/E Services for the Office of the Adjutant General, West Virginia Army National Guard, Division of Engineering and Facilities, Charleston, West Virginia.** *State Army National Guard Headquarters.* Architect. Responsibilities included providing a complete design and construction administration services for architectural improvements of the first floor of the Office of the Adjutant General (TAG), and to provide MEP and HVAC design improvements for the entire TAG Wing, Headquarters Building, and Armory/Drill Floor. The Facilities Management Officer (FMO) for the State of West Virginia, Division of Engineering and Facilities (DEF), West Virginia Army National Guard (WVARNG) selected Baker for a lump sum/fixed fee contract for architectural and engineering services. The Owner requested the need for modernization of approximately 12,000 square feet of existing outdated office space. Project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, alterations to the existing floor plan, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal.

**Duncan Penney, RA, LEED® AP**

*Life Safety Services*

***General Qualifications***

Mr. Penney's exceptional technical, analytical, and architectural skills reflect more than 24 years of experience in architectural design and project management. His achievements include delivering multi-million dollar projects on time and within construction budget. Mr. Penney has performed project design, project management, design charrettes, feasibility studies, construction administration, and specification writing. A Certified Construction Specifier (CCS), he is skilled in producing construction documents.

***Relevant Experience***

**Security Improvements, Pittsburgh, Pennsylvania.** *ADP (Automatic Data Processing).* Architect. Responsible as a technical advisor to the architectural team for building codes, architectural design, and architectural specifications. Baker provided design services for alterations to the existing ADP Pittsburgh Office to improve security. Improvements included lobby alterations to limit visitor access including walls, entry access systems, and a turnstile, as well as integration with building-wide electronic security improvements. Baker provided architectural consulting services and construction cost estimating for these improvements, and expanded construction observation services.

**Design of Gatehouse and Administration Areas, Confidential Site.** *Confidential Client.* Architect. Responsible for building code review, architectural specifications and construction documents, and coordination of disciplines for technical documentation. Renovations were designed for the gatehouse and administrative spaces in three buildings. Services included renovation of approximately 3,300 square feet of office space and an underground control center, and renovation and expansion to the 10,000-square-foot gatehouse, including new roofing and siding, new main site access gate and control system, relocation of the existing security alarm center, support for special electrical systems, security, LAN, and under-vehicle surveillance system, as well as supporting site work such as fencing, external turnstiles, concrete security bollards, and paving.

**Defense Medical Logistics Center, Fort Detrick, Maryland.** *U.S. Army Corps of Engineers, Baltimore District.* Architect. Responsibilities included serving as Technical Advisor for selection of building envelope and roof system. Baker is the designer-of-record for the design-build delivery of a new Defense Medical Logistics Center at Fort Detrick, Maryland, for the Military Medical Logistics System. The three-story, 128,000-square-foot brick structure houses the top military medical

**Years with Baker:** 9

**Years with Other Firms:** 21

**Education**

B.Arch., 1979, Architecture, Carnegie Mellon University

A.D., 1975, Fine Arts, Cape Cod Community College

**Licenses/Certifications**

Registered Architect, Pennsylvania

LEED® Accredited Professional

Construction Documents Technologist

Certified Construction Specifier

Certified Construction Contract Administrator

NCI Charrette System Certificate

NCARB



planning agencies from the Army, Navy, Air Force, and Marines. Parking spaces for 310 vehicles were provided. Amenities include off-site stormwater retention pond, reforestation requirements, standing seam hip roof; chilled water HVAC system, dense tele/data systems including SIPRNET, sophisticated security systems, and AT/FP considerations. A design charrette and separate partnering session was held with all project stakeholders.

**Armed Forces Reserve Center, Camp Bullis, San Antonio, Texas.** *U.S. Army Corps of Engineers, Louisville District.* Architect. Responsibilities included serving as a technical advisor for the construction documents. Baker teamed with builders other clients, under a Design-build contract for the full design of an Armed Forces Reserve Center (AFRC) to be located at Camp Bullis, Texas. The \$39 million, 189,071-square-foot complex consists of five buildings, including a Training Center, Organizational Unit (Heated) Storage building, Vehicle Maintenance Shop, and two Unheated Storage (UHS) buildings. Designs are also required for Comprehensive Interior Design (CID) and Structural Interior Design (SID), utilities, storm drainage, communications, electric, HVAC, fire protection/alarm systems, Intrusion Detection System, Emergency Management Communication System, anti-terrorism and force protection measures, paving, walks, curbs, parking, access roads, exterior lighting, site improvements, grading and landscaping. The project will be designed to meet the Silver Level of LEED®.

**New Warehouse and Special Purpose Brigade Operations Buildings, Fort Jackson, Columbia, South Carolina.** *U.S. Army Corps of Engineers, Louisville District.* Architect. Served as a technical advisor to the architectural team for building codes, architectural design, and architectural specifications. Baker prepared a Design-build RFP Document for an Operations Building for the U.S. Army Recruiting Command. The 11,000-square-foot facility provided office and storage space and a professional, comfortable work atmosphere to allow the Recruiting Command to meet its important mission of attracting potential soldiers to aid in the defense of the United States. The project consisted of the renovation of an existing three-story building for office space and the construction of a new 3,250-square-foot warehouse structure. Anti-terrorism and force protection measures included progressive collapse analysis, setback requirements, and blast-proof window installation.

**Network Operations Center, Quantico Marine Corps Base, Virginia.** *Naval Facilities Engineering Command, Atlantic Division.* Architect. Responsibilities included technical writing and analysis for the project to be LEED® 2.1 accredited. This 42,000-square-foot Network Operations Center at the U.S. Marine Corps Base in Quantico, Virginia, manages all of the military's computer network traffic throughout the region. This includes remote operations and monitoring of servers and server farms, routers, networks, along with prevention, detection, and rapid response to attempts to penetrate network security. The project features two SCIF spaces, raised flooring throughout the majority of the facility, and a Command Center designed for 24/7 operation.

## Kenneth Zaklukiewicz

Security Planner/Designer

### General Qualifications

As Senior Program Manager within Baker's Emergency Management Services Division, Mr. Zaklukiewicz has developed security plans, evacuation plans, emergency operations plans and programs, and Continuity of Operations (COOP) plans, conducted vulnerability assessments, and conducted exercises for both private and public sector clients.

As an Emergency Manager, Mr. Zaklukiewicz has extensive experience in emergency operation plans development and hands on experience in emergency response operations in coordinating the efforts of fire, HazMat, bomb disposal, law enforcement, and other emergency management disciplines. Mr. Zaklukiewicz conducts key infrastructure vulnerability and threat assessments utilizing his extensive Chemical, Biological, Nuclear, and Explosive (CBRNE) expertise. He has worked within the local, state, federal emergency management community, military, and private industry.

### Relevant Experience

**Security Vulnerability Assessment, Virginia. Henrico County, Virginia.** Mr. Zaklukiewicz provided security consulting services, vulnerability assessments to security risk, and threat assessment services for General Government facilities in Henrico County, Virginia. He assessed the risk/threat faced at the facilities and prepares reports summarizing the areas of vulnerability. He evaluated contingency plans for the Emergency Operations Center, existing Security Services protocols including Standard Operating Procedures and made recommendations to develop effective management and security policies to mitigate potential and existing threats to the employees, customers, and assets.

**Continuity of Operations (COOP) and Security Plan, Charleston, West Virginia. Kanawha Valley Regional Transportation Authority (KRT).** Mr. Zaklukiewicz developed a COOP and Security Plan for KRT that includes plans and procedures that delineate business critical functions; specify succession to office and the emergency delegation of authority; provide for the safekeeping of vital records and databases; identifying an alternate operating facilities; and provide for interoperable communications. The Security Plan addresses all-hazards events to protect employees and customers.

**Years with Baker: 7**

**Years with Other Firms: 24**

#### Education

M.S., 1997, Business Organizational Management, University of La Verne

B.S., 1994, Occupational Education, Wayland Baptist University

A.S., 1991, Disaster Preparedness, Community College of the Air Force

#### Licenses/Certifications

NFPA Pro Board Fire Instructor I, West Virginia

HAZMAT Training Certification, Texas



**Transportation Emergency Response Plan, Arizona.** *Arizona Department of Transportation.* Mr. Zaklukiewicz developed an all-hazard Emergency Response Plan (ERP) for the Arizona Department of Transportation (ADOT) that included specific annexes for Natural Disasters, Hazardous Materials, and Terrorism. He led a team that reviewed existing plans, procedures, checklists, and interviewed ADOT key staff to obtain procedures and clarified defined roles and responsibilities relevant to the ERP development, and assessed their adequacy in addressing the threats identified in the Vulnerability Assessment.

**Continuity of Operations (COOP) Plan.** *Department of Homeland Security, United States Visitor and Immigrant Status Indicator Technology (US-VISIT) Program.* Mr. Zaklukiewicz developed a COOP and Pandemic Influenza COOP Plan to ensure US-VISIT can continue its mission essential functions across a wide range of emergencies that involve their primary facility in the National Capital Region and for and its staff. In addition in developing the COOP, Mr. Zaklukiewicz is working with the General Services Administration (GSA) to assign federally owned or leased space to accommodate US-VISIT's Alternate Operating Facility and has also identified all logistics requirements that includes vital database, records, and mission critical systems that will ensure US-VISIT can be operational within 12 hours and sustain operations for up to 30 days.

**Center for National Response, Titan Corporation, Gallagher, West Virginia.** Exercise Director. Mr. Zaklukiewicz designed, developed and executed first responder training and exercises and managed a program in a uniquely suited multipurpose exercise highway tunnel facility designed to meet a wide range of WMD and counterterrorism requirements for the DoD, Federal, State, and local organizations. He oversaw the tunnel's physical configuration and venues which included post blast rubble area with hazards and vehicles, subway train and station for chemical attacks, three chemical, biological, and drug laboratories at different levels of sophistication, and highway WMD/HazMat wreck incident configured with a wide variety of chemical, biological, and radiological sources.

**Critical Infrastructure Assessment, Confidential Location, Illinois.** *Confidential Client.* Task Manager. Provided technical expertise to serve as members of multidisciplinary teams of government and contractor personnel performing assessments of critical infrastructure and key resources. Baker was contracted to support site assessments, buffer zone protection, and other vulnerability-related assessments and planning activities. Baker provided technical experts to serve as members of multidisciplinary teams of government and contractor personnel performing assessments of critical infrastructure and key resources.

**United States Air Force, Disaster Preparedness.** Mr. Zaklukiewicz's 22-year military career included duties in Emergency Management, Exercise Design and Evaluation, and Nuclear, Biological and Chemical (NBC) Defense. He gained immeasurable experience in designing numerous emergency response plans and developed exercises and drills to exercise plan changes. He was a key member of the USAF Exercise Evaluation Program and Headquarter Inspector General teams. He served as a disaster coordinator for emergency response and Emergency Operations Center operations.

**Diana Hartman, AICP, NCI**  
*Security Planner*

***General Qualifications***

Ms. Hartman is a certified planner with several years of diversified professional experience. She has worked on a wide range of projects including antiterrorism/force protection planning for military bases. She has represented Baker at "Antiterrorism/Force Protection AT/FP Doing It By The Book," the 2003 ANG CEC Conference, where she was a panel member and presenter. Her experience also includes conducting Phase I Environmental Site Assessments for various commercial/industrial properties, writing comprehensive master plans, creating conceptual site plans for property development purposes, and designing initial subdivision layouts. In addition, she has peer-reviewed and interpreted environmental documentation for technical merit as well as provided expert testimony before Planning Boards and Boards of Adjustment.

**Years with Baker:** 8

**Years with Other Firms:** 9

**Education**

B.S., 1994, Landscape Architecture, The Pennsylvania State University

Coursework, International Study Abroad Program, University of Pittsburgh

**Licenses/Certifications**

American Institute of Certified Planners, Virginia

NCI Charrette System Certificate

***Relevant Experience***

**Antiterrorism and Force Protection Study and Design for the U. S. Air Force Expeditionary Center, McGuire Air Force Base, Burlington County, New Jersey.** *U.S. Air Force, McGuire AFB.* Planner. Conducted facility compliance survey for the Expeditionary Center complex at McGuire AFB. Recommended various alternatives and developed preferred design alternatives to guide future construction programming, brought facilities into compliance with AT/FP standards, and reduced the risk of loss of life. Baker conducted a professional engineering survey, analysis, design, and cost estimate for a permanent, 25-meter, vehicle standoff mitigation system for the U.S. Air Force (USAF) Expeditionary Center at McGuire Air Force Base, in accordance with Department of Defense antiterrorism and force protection standards. Baker also developed recommendations for bringing other facilities at the base into compliance with the standards.

**Adelphi Laboratory Security Gates Study, Adelphi Campus and Blossom Point Research Facility, Maryland.** *U.S. Army Corps of Engineers, Baltimore District.* Planner. Responsible for compiling and evaluating several conceptual designs and threat-scenario analysis for secure ECF vehicle inspection station areas to address immediate and long-term requirements in accordance with governing regulations. ECF designs were prepared for the Floral Drive and Glenmore Gates at Adelphi Laboratory, as well as the ECF at Blossom Point. Prepared response time calculations to assess all alternatives. Adelphi Laboratory Center (ALC) requested assistance in studying the installation's access gates at both Adelphi and Blossom Point to address immediate and long-term requirements. Baker performed a study that looked at the various entrances to determine how best to incorporate a vehicle inspection



station and how best to enter and exit the installation while following the Army's access control plan as much as possible under existing land use constraints.

**Assessment of Impacts of the United Facilities Criteria Department of Defense Minimum Antiterrorism Standards for Buildings, 70 Air National Guard Bases, Nationwide.** *Air National Guard CRTC/FMB.* Planner. Responsible for conducting assessments at more than half of the assessed installations nationwide. Developed report format, automated report and mapping tools, and established project quality control standards. Performed daily task coordination of assessment teams. Client and installations primary point of contact. Performed quality control monitoring and technical review of work product for all AT/FP reports. Baker was responsible for assessment of impacts of the United Facilities Criteria (UFC) Department of Defense Minimum Antiterrorism Standards for Buildings on existing structures at 70 Air National Guard Bases. Assessment included facility classification; road and parking analysis; creation of road, parking lot, and perimeter standoffs; compilation of a development suitability model; development of recommendations feeding into the project funding process; and planning level cost estimates to ensure compliance of AT Standards. Baker then prioritized the actions required to mitigate terrorism threats.

**Sheltering and Evacuation Guide and Resource Database, National Capital Region.** *Metropolitan Washington Council of Governments (MWCOC).* Planner. Responsible for compilation of Evacuation and Sheltering Plan and design of accompanying resource database. Also responsible for quality control, content, and consistency. Baker developed an integrated evacuation and sheltering plan for the National Capital Region, focused on catastrophic events. Each jurisdiction in the region has evacuation and sheltering plans, but these plans lacked uniformity and coordination between jurisdictions. Baker researched and evaluated routes, transportation resources, population profiles, infrastructure, and other current data and provided a regional evacuation and shelter plan to coordinate local emergency plans and combine all critical elements into a single plan using a common format.

**Special Mobility Needs Evacuation Planning, Seven-County Mid-Ohio Region, Ohio.** *Mid Ohio Regional Planning Commission (MORPC).* QA/QC. Responsible for review of proposal and fee estimate for content, quality, and consistency. Also compiled the project schedule and milestones in Microsoft Project. Edited and produced Existing Conditions Matrix that was a gap analysis of existing plans. Compiled, edited, and produced planning framework document. Baker is developing a coordinated, regional, disaster and evacuation plan for populations with special mobility needs. The project includes demographic research, GIS mapping, stakeholder outreach, and public involvement.

**Hawthorne RPMP.** *U.S. Army Corps of Engineers, Sacramento District.* QA/QC. Responsible for technical review for the final Antiterrorism Force Protection (AT/FP) and Explosive Safety Quantity Distance (ESQD) Study. Developed a set of recommendations to guide future construction programming, brought facilities into compliance with the AT/FP standards, and reduced the risk of loss of life in the event of a terrorist attack. Performed quality control monitoring and technical review to ensure planning products met established project and industry standards of the Gate and Perimeter Fence Study to establish new entry control facilities (ECF) in compliance with AT/FP standards and the TAB management needs and process assessment which explored the feasibility of using RPLANS and ISR as planning support tools to justify the Military Construction (MILCON) program.

## John Porco, PE

Senior Security Advisor

### General Qualifications

Mr. Porco has 30+ years of government and private sector experience in emergency planning, response, recovery, security and mitigation at the national, regional and local levels, involving all hazards – natural and technological disasters, terrorism and national security emergencies. He served for 32 years in the U.S. Department of Transportation, 15 of that in the Office of Emergency Transportation, rising to the position of Deputy Director of Emergency Transportation. There, he directed a multi-million dollar Federal program to plan for, respond to, and provide transportation support and infrastructure recovery in a variety of emergencies. This experience has produced a sound foundation in roles of and relationships among federal, state, local, tribal, international, volunteer, and private sector constituents and the disaster response process.

Mr. Porco currently serves as Senior Director for Baker Homeland Security Services, providing all-hazard mitigation and response planning services to a variety of clients, federal, state, county, and local, as well as in the private sector. Mr. Porco has spoken on water infrastructure security and emergency management at more than 20 meetings sponsored by professional associations, including American Water Works Association, Association of Metropolitan Water Agencies, American Public Works Association, Waterworks Operators of Pennsylvania, University of Colorado, and the Floodplain Management Association. He is trained on NIMS and ICS. He has been quoted in the media as a "security expert" and has a SECRET security clearance.

### Relevant Experience

**Centralized Security Control System for Water/Wastewater Facilities, Oakland, California.** *East Bay Municipal Utility District.* Project Manager for this project, valued at more than a half million dollars, supervising all project tasks. This project involved the development of a security policy and strategy for the District to guide a major capital investment program (\$25 million), a vulnerability assessment (VA), onsite security evaluations of nearly 100 District wastewater and water facilities and development of recommendations and conceptual designs for security mitigation enhancements. Included was a comprehensive review of perimeter security at critical EBMUD facilities, including the water and wastewater treatment plants, offices, maintenance yards, reservoirs, and pumping stations. This perimeter review examined such security measures as fencing, access control, surveillance, and intrusion detection, and provided recommendations for enhancements. CPTED features were considered in the assessment.

**Years with Baker:** 14

**Years with Other Firms:** 32

#### **Education**

B.S., 1966, Civil Engineering, Drexel University

Graduate Studies, Public Administration,  
University of Southern California

#### **Licenses/Certifications**

Professional Engineer: Arizona

AwwaRF/Sandia Risk Assess Method Water,  
Licensed Instructor



**Water System Vulnerability Assessment, Glendale, Arizona.** *City of Glendale, Arizona.* Project Manager for a vulnerability assessment of the Glendale Water Department's water system. The VA was based on the full application of the Sandia RAM-W process. The project included several workshops; Sandia risk assessment training; on-site inspections of all water facilities, which included both surface and ground water sources; development of risk reduction measures; review of response plans; and a water contamination monitoring review. As with the EBMUD VA, perimeter security at critical facilities was examined in depth and recommendations provided. Baker then completed a second phase of the project to update GUD's emergency response plans and conduct security awareness training for utility employees. CPTED features were considered in the assessment.

**Security and Vulnerability Assessment, San Jose, Arizona.** *Santa Clara Valley Water District.* Project Manager on a security project for one of the largest water wholesalers in California. Baker conducted a security review of the District's headquarters complex in San Jose, a review of headquarters security plans, and a security assessment of the business information technology system. The final report outlined specific security enhancements recommended for the complex, including architectural and interior floor plan changes, perimeter security, alarms, CCTV, and central monitoring. CPTED features were considered in the assessment.

**Arizona Department of Transportation.** Project Manager for the development of a Homeland Security Needs Study. The project included a review of the Department's communications interoperability, vulnerability assessments and protection of facilities, IT security, COOP plans, response plans, evacuation plans, interagency and intra-agency coordination, training, and exercises. As a second phase, Baker developed a complete all-hazards emergency response plan. Baker also conducted a full security vulnerability assessment of the ADOT system using a TSA methodology. The project assessed the threats to and vulnerability of ADOT's bridges and tunnels and developed a representative security mitigation plan for each type of facility (tunnel, highway interchange, arch bridge, railway overpass, major Interstate river crossing, traffic operations center, etc.).

**American Water Works Association Research Foundation (AwwaRF), Denver, Colorado.** Principal Researcher/Technical Manager for AwwaRF and EPA to develop the *Security Practices Primer for Water Utilities*, published to accolades in February 2004. This was among the first water security guidance directed to utilities. The Primer focused on policy and procedures best practices related to security against all terrorist threats, including employee screening and training, protection of sensitive information, media and public relations, water system emergency response, physical security, and coordination with law enforcement and health officials. The project involved intensive document, periodical, and website research; contact with 100 water utilities, water professional organizations, and federal and state agencies; and an expert workshop.

**Olympic Security and Response Plans, Utah.** *Salt Lake City Department of Public Utilities (DPU).* Senior Technical Analyst/Assistant Project Manager, responsible for developing security and operating plans for the 2002 Winter Olympics for DPU. The project involved assessing the security of DPU's wastewater, water, and stormwater facilities; developing recommended improvements; and preparing a terrorism operations plan for the Olympic period. He conducted extensive coordination with city, county, and State emergency management agencies and the public safety community, developed a document security plan, and prepared a Training and Exercise Plan. Prior to the Olympics, Mr. Porco managed the conduct of six intensive simulation exercises and supervised the preparation and testing of a media relations plan for the DPU.



**Patrick Fogarty, PE, PS**

*Site Civil Engineer*

**General Qualifications**

Mr. Fogarty has over 26 years of civil engineering project design and management experience. He is responsible for the technical and management aspects of civil design and surveying projects within Baker's Charleston, West Virginia office. Mr. Fogarty has designed and managed projects in numerous disciplines including civil, structural, and transportation engineering; site development planning; and surveying. These projects have included buildings, retail/ commercial site preparation, airports, streets/highways, bridges, parking lots, retaining walls/foundations, sanitary systems and structures, as well as boundary and topographic and photogrammetric surveys. Duties included field surveying, drawings and specification preparation, design, design drafting, construction inspection, quality control testing, shop drawing review, project management, contract administration and report preparation. Management duties include financial planning, management and staff utilization for two departments, human resource planning, marketing, and strategic planning.

**Relevant Experience**

**Campus Master Planning and Architectural and Engineering Services for State Capitol Complex, Charleston, West Virginia.** *State of West Virginia General Services Division.* Project Manager. Responsibilities included project management of the planning and infrastructure analysis and the coordination of six specialized subconsultants. Baker is providing comprehensive master planning services, plans and construction specifications, and construction administration for improvements to the historic West Virginia state capitol campus. Master planning services include plans for expansion, location of new buildings, pedestrian and traffic circulation, landscaping, utilities, and site security. Baker is also providing construction plans and contract administration services for some of the security and landscaping improvements.

**West Virginia State Capitol Restroom Renovations, Charleston, West Virginia.** *State of West Virginia V General Services Division.* Project Manager. Responsible for the overall management of the project. Baker is leading a planning study for the renovation of 31 restrooms in the historic West Virginia Capitol Building. The planning study assesses the facilities and their conformance to current code requirements and code-required capacities, compliance with Americans with Disabilities Act (ADA) requirements, quantification of the building occupancy during normal and peak periods, and an evaluation of gender distribution of restrooms within the Capitol. Baker is providing design, construction

**Years with Baker:** 6

**Years with Other Firms:** 20

**Education**

B.S., 1985, Civil Engineering, West Virginia University Institute of Technology

Diploma, 1993, Surveying and Mapping, International Correspondence Schools

Coursework, Business Administration, Heriot-Watt University, Edinburgh College of Art

**Licenses/Certifications**

Professional Engineer: Civil/Structural, West Virginia, Kentucky, Virginia, Pennsylvania, North Carolina, Ohio

Professional Surveyor: West Virginia, Kentucky, Ohio

Construction Documents Technologist

FAA, Eastern Region Laboratory Procedures Manual Certificate (P-401)

Asphalt Paving Technician, West Virginia

Concrete Technician, West Virginia



sequence, and scheduling recommendations. Upon approval of the design, Baker will prepare construction documents and provide construction administration services for the renovation of three restrooms on the basement level.

**A/E Services for the Office of the Adjutant General, West Virginia Army National Guard, Division of Engineering and Facilities, Charleston, West Virginia.** *State Army National Guard Headquarters.* Project Manager. Responsible for the management and coordination of all activities. The Facilities Management Officer for the State of West Virginia, Division of Engineering and Facilities, and West Virginia Army National Guard selected Baker for a lump-sum, fixed-fee contract for architectural and engineering services. Baker provided complete design and construction administration services for the renovation of the first floor of the entire wing of the Office of the Adjutant General. The Owner requested the need for modernization of approximately 12,000 square feet of existing outdated office space – project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, alterations to the existing floor plan, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal.

**Town of West Milford-Sidewalk Improvements, West Milford, West Virginia.** *Town of West Milford.* Project Manager. Engineer-of-Record responsible for the coordination of all activities. Baker performed complete planning, design, and construction management services for new sidewalks along U.S. Route 270 (Main Street) for the Town of West Milford. The improvements included concrete sidewalks with integral concrete curbs, driveway curb cuts, ADA accessible curb ramps with truncated domes, "ladder-style" crosswalks and storm drainage design. Baker provided Construction Administration and resident inspection services, as well as periodic site review during construction.

**Flood Protection Options Report for Bonham Elementary School, Kanawha County, West Virginia.** *West Virginia Division of Homeland Security and Emergency Management.* Project Manager. Responsible for the development of a report listing potential flood protection options for the facility. Baker was retained by the West Virginia Division of Homeland Security and Emergency Management to prepare a report to address flood protection options for Bonham Elementary School in Kanawha County, West Virginia.

**Maple Avenue Streetscape, Moorefield, West Virginia.** *Town of Moorefield.* Project Manager. Engineer-of-Record responsible for the coordination of all activities. The Town of Moorefield was in need of a pedestrian-friendly way of connecting the downtown area with the highly utilized nearby community park. Maple Avenue was a secondary street connecting the two areas; there were no sidewalks and deep ditches were along most of the corridor. Moorefield tasked Baker with the planning and design of improvements that would both upgrade existing facilities and create a unified community linking the downtown with the community park.

**Lost Creek Train Depot Rehabilitation, Lost Creek, West Virginia.** *Town of Lost Creek.* Project Manager. Responsible for the management and coordination of all activities as well as all engineering design. The Town of Lost Creek retained Baker for the planning and design of the rehabilitation of a historic train depot adjacent to the Harrison County Rail Trail. Baker prepared a plan to raise the structure, make repairs to the deteriorated timber, excavate and place the concrete foundation system, then lower the structure to rest on the new foundation. Baker provided construction administration and inspection services as well as periodic site review during construction.



**Laura Cox, PLA, ASLA, LEED® Green Associate**

*Landscape Architect*

**General Qualifications**

Ms. Cox is a Registered Landscape Architect with over 30 years of experience in the fields of landscape architecture and land planning. She has knowledge of all phases of design from site analysis and conceptual planning through construction documentation, permitting and, administration. Her design experience includes large-scale site preparation and grading, drainage analysis, storm water conveyance and detention, and utility and infrastructure design. Ms. Cox has an extensive background in site and land use planning for counties and municipalities including, feasibility studies, review and evaluation of preliminary and final subdivision plans, special exceptions, rezoning applications, yield studies, special use permits, and client representation at public hearings and meetings with civic groups.

**Relevant Experience**

**Campus Master Planning and Architectural and Engineering Services for State Capitol Complex, Charleston, West Virginia.** *State of West Virginia General Services Division.* Landscape Architect. Responsibilities include assisting in various phases of the Master Planning effort including site analysis, design recommendations, and coordination of graphics for publication. Baker is providing comprehensive master planning services, plans and construction specifications, and construction administration for improvements to the historic West Virginia State Capitol Campus. Master planning services include plans for expansion, location of new buildings, pedestrian and traffic circulation, landscaping, utilities, and site security. Baker is also providing construction plans and contract administration services for some of the security and landscaping improvements.

**West Virginia Army National Guard - TAG Wing Improvement, Charleston, West Virginia.** *State Army National Guard Headquarters.* Landscape Architect. Assisted in the preparation of the construction documents. Baker performed complete planning, design, and construction management services for renovations to the Office of the Adjutant General at the State Army National Guard Headquarters in Charleston, West Virginia. The facility included administrative spaces, including a Child Development Center. Project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, several new wall partitions, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal. Baker provided construction administration and inspection services, as well as periodic site review during construction.

**Years with Baker: 4**

**Years with Other Firms: 29**

**Education**

B.S., 1978, Landscape Architecture, West Virginia University

Certificate, 1995, Computer Aided Drafting, Putnam County Technical Center

**Licenses/Certifications**

Professional Landscape Architect, West Virginia

Licensed Landscape Architect, Virginia

Professional Landscape Architect, New Jersey

LEED® Green Associate

NICET III Transportation-Highway Construction, West Virginia



**Parsons City-Wide Comprehensive Parks and Recreation Master Plan, Parsons, West Virginia.** *Parsons Park Board, Inc.* Landscape Architect. Assisted in the plan preparation and public outreach for this project. Baker prepared a Master Plan of improvements and recommendations for existing and proposed parks and recreation amenities for the City of Parsons. The City, over time, had acquired many parcels of FEMA-condemned properties due to the flood-prone topography of Parsons; in an effort to properly manage existing facilities, yet prepare for the future of the additional facilities scattered throughout the community, this master planning effort was begun. Through a series of public meetings and stakeholder meetings, a final plan was developed with recommendations for ball fields, hiking and biking trails, recreation center, miniature golf course, play structures, picnic facilities, ADA-compliant fishing access, interpretive signage, and landscaping improvements for existing and new park areas.

**Sidewalk Improvements, Parsons, West Virginia.** *City of Parsons, West Virginia.* Landscape Architect. Assisted in the preparation of construction documents. Baker performed complete planning, design, and construction management services for new sidewalks and streetscape elements for various areas within the City of Parsons. The improvements included concrete sidewalks with integral concrete curbs, driveway curb cuts, ADA accessible curb ramps with truncated domes, ladder-style crosswalks, and storm water management, landscape beds and street trees, side street parking elements, and wrought iron park benches and trash receptacles. Baker provided construction administration and inspection services, as well as periodic site review during construction.

**Planning Services, Winfield, West Virginia.** *Town of Winfield.* Planner. Responsibilities include acting as Planning Director to the Town, providing support directly to the Planning Commission and Town Staff, grant writing and advising the Town and the Mayor on various planning issues. Under an on-call planning agreement, Baker is providing a wide range of planning, architectural, and engineering services. Acting as city planner, Baker attends city council meetings and planning and zoning committee meetings on an as-needed basis, and receives planning assignments at those meetings. Assignments include review of planned development, zoning appeals, and proposed changes to the zoning ordinance.

**US 33 Streetscape Improvement Project - Phase II, Mason, West Virginia.** *Town of Mason.* Landscape Architect. Assisted in the preparation of construction documents. Baker performed complete detailed design, construction document preparation, and construction management services for new sidewalks and storm sewer improvements for the Mason Phase II Streetscape Project. The improvements included concrete sidewalks with integral concrete curbs, driveway curb cuts, ADA accessible curb ramps with truncated domes, ladder-style crosswalks, storm sewer improvements, benches, and trash receptacles. Baker provided construction administration and inspection services.

**David Hilliard, PE, LEED® Green Associate**

*Utilities*

***General Qualifications***

Mr. Hilliard has a wide range of hands-on design and construction experience. From his simple beginnings as a carpenter, he has expanded his professional abilities. His recent design experience has included the complex mechanical design of such projects as a large Charleston, West Virginia hospital. His resume covers over 20 years of real world work in design, layout, fabrication, construction and finishes in both the mechanical and general trades. Mr. Hilliard has continued his education and professional development through his involvement with ASHRAE and other pertinent organizations. He recently received his LEED® Green Associate accreditation.

**Years with Baker: 3**

**Years with Other Firms: 19**

**Education**

B.S.M.E., 2005, Mechanical Engineering, West Virginia University Institute of Technology

B.S., 2002, Mathematics and Science, West Virginia State College

**Licenses/Certifications**

LEED® Green Associate

***Relevant Experience***

**Campus Master Planning and Architectural and Engineering Services for State Capitol Complex, Charleston, West Virginia.** *State of West Virginia General Services Division.* Engineering Technician. Working in conjunction with a team of specialized consultants, currently providing programming, cost estimating, and facilities planning support. Services included HVAC load calculations, as well as utility evaluation and planning for future growth. Baker is providing comprehensive master planning services, plans and construction specifications, and construction administration for improvements to the historic West Virginia State Capitol Complex. Master planning services include plans for expansion, location of new buildings, pedestrian and traffic circulation, landscaping, utilities, and site security. Baker is also providing construction plans and contract administration services for some of the security and landscaping improvements.

**West Virginia State Capitol Restroom Renovations.** *State of West Virginia General Services Division.* Engineering Technician. Baker is leading a planning study for the renovation of 31 restrooms in the historic West Virginia Capitol Building. The planning study will assess the facilities and their conformance to current code requirements and code-required capacities, compliance with Americans with Disabilities Act (ADA) requirements, quantification of the building occupancy during normal and peak periods, and an evaluation of gender distribution of restrooms within the capitol. Baker will provide design, construction sequence, and scheduling recommendations. Upon approval of the design, Baker will prepare construction documents and provide construction administration services for the renovation of three restrooms on the basement level.



**A/E Services for the Office of the Adjutant General, West Virginia Army National Guard, Division of Engineering and Facilities, Charleston, West Virginia.** *State Army National Guard Headquarters.* Engineering Technician. Responsible for all mechanical design oversight and construction management. The Facilities Management Officer for the State of West Virginia, Division of Engineering and Facilities, and West Virginia Army National Guard selected Baker for a lump sum/fixed fee contract for architectural and engineering services. Baker is providing complete design and construction administration services for the renovation of the first floor of the entire wing of the Office of the Adjutant General (TAG). The Owner requested the need for modernization of approximately 12,000 square feet of existing outdated office space, including a Child Development Center - project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, alterations to the existing floor plan, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal.

**West Virginia Army National Guard - Tag Wing Improvement, Charleston, West Virginia.** *State Army National Guard Headquarters.* Electrical Technician. Responsible for all mechanical design oversight and construction management. The Facilities Management Officer (FMO) for the State of West Virginia, Division of Engineering and Facilities (DEF), West Virginia Army National Guard (WVARNG) selected Baker for architectural and engineering services. The State Army National Guard Headquarters in Charleston, West Virginia was originally constructed in the early 1960's. Over the years, there have been numerous upgrades to the facility. Baker performed complete planning, design, and construction management services for renovations to the Office of the Adjutant General at the State Army National Guard Headquarters in Charleston, West Virginia. Project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, several new wall partitions, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal. Baker provided Construction Administration and inspection services as well as periodic site review during construction.

**Little Kanawha Bus Facility, Calhoun County, West Virginia.** *West Virginia Division of Public Transit.* Electrical Technician. Responsible for the Mechanical, Electrical and Plumbing Design, MEP Document Preparation, and Construction Administration for a new bus maintenance and office facility for Gilmer County. Duties include the design of the vehicle storage, cleaning and maintenance mechanical systems, as well as oil pumping and collection systems. The design of an energy efficient HVAC system for the entire building is also part of his responsibilities. Baker is providing architectural and engineering services, landscape architecture, and construction-phase support for a new, 10,000-square foot, pre-engineered, metal and brick bus maintenance and transit operations facility. The 4,500-square-foot administrative area will include offices, a conference room, a money-counting room, and a driver-training room, and the 5,500-square-foot bus maintenance area will include storage for seven buses. The facility will be ADA-compliant and is being designed to achieve LEED® certification. Services include site survey and design, geotechnical testing, environmental compliance, utility coordination, bid documents, bid-phase support, and as-built drawings.

**Ron Schirato, PE, LEED® AP, NCI**

*Utilities*

**General Qualifications**

Mr. Schirato is a civil engineer with a broad range of experience in environmental permitting and engineering for site development on commercial and military and residential properties. He has extensive experience in stormwater management, best management practices, utility infrastructure design, engineering for transportation (roadways), computerized hydrology and hydraulics, and management.

**Relevant Experience**

**Site Development for New Bus Maintenance Facility, Butler Township, Pennsylvania.** *Butler Transit Authority Office.* Project Manager. Responsible for managing civil engineering for the project. Managed the preparation of civil engineering construction and project specifications. Engineering work included coordination and permitting with local and state agencies, demolition plan development, geometric site layout, utility infrastructure design, erosion and sediment control design, stormwater pollution prevention plan development, NPDES permit coverage, site grading and earthwork analyses, coordination of landscape plan development. Participated in project design review meetings with client and owner.

**Site Design for Mobile Switch Center Building Addition, Bridgeville, Pennsylvania.** *Verizon Wireless.* Civil Engineer. Prepared civil engineering construction drawings and specifications for the proposed development. Engineering work included coordination with and approvals from local and state agencies, utility design, erosion and sediment control design, site grading, site layout and stormwater management design, NPDES permitting. The addition of a second building to Verizon Wireless's Mobile Switch Center required approval of a Land Development Plan by both the business park and the local municipality. Baker prepared drawings and supporting documents for the approval process, including: topographic survey, ALTA/ACSM land title survey plan, site plans for the proposed building and parking area, landscape plan, grading and storm drainage plans, utility and paving plans, and site lighting plan.

**Open-End Facilities Engineering Services, Pennsylvania and Idaho.** *Confidential Client.* Design Review Manager. Provided technical design consultations to the core team members for the NRF Facility Master Plan. Baker provided full-service architectural and engineering services under an open-end contract to a confidential client with secure campus locations in Pennsylvania and Idaho. The Pennsylvania campus serves as a Naval propulsion system research, development, and training facility

**Years with Baker: 7**

**Years with Other Firms: 7**

**Education**

B.S.C.E.T., 1997, Civil Engineering Technology,  
University of Pittsburgh, Johnstown Campus

Master's Certificate, 2009, Project  
Management, University of Pittsburgh, Katz  
Graduate School of Business

**Licenses/Certifications**

Professional Engineer: Pennsylvania, New  
York, Oregon, Oklahoma

LEED® Accredited Professional

NCEES Certified

NCI Charrette System Certificate



with over 50 buildings and more than 2,200 personnel. Located 40 miles from any development, the Idaho site is a nuclear reactor facility for fuel rod reprocessing with 85 buildings and structures, and more than 1,200 personnel.

**Defense Medical Logistics Center, Fort Detrick, Maryland.** *U.S. Army Corps of Engineers, Baltimore District.* Civil Engineer. Responsibilities included providing technical design consultations to the core team members and conducting interdisciplinary technical quality reviews of the design. Baker is the designer-of-record for the design-build delivery of a new Defense Medical Logistics Center at Fort Detrick, Maryland, for the Military Medical Logistics System. The three-story, 128,000-square-foot brick structure houses the top military medical planning agencies from the Army, Navy, Air Force, and Marines. Parking spaces for 310 vehicles were provided. Amenities include off-site stormwater retention pond, reforestation requirements, standing seam hip roof; chilled water HVAC system, dense tele/data systems including SIPRNET, sophisticated security systems, and AT/FP considerations. A design charrette and separate partnering session was held with all project stakeholders.

**U.S. Army Reserve Center OMS/AMSA/STRG, Greenville, South Carolina.** *U.S. Army Corps of Engineers, Louisville District.* Civil Engineer. Civil engineer of record for this design-bid-build project. Prepared conceptual site layout and participated in multi-day charrette to shape the design of this site from a civil engineering perspective. Charrette phase work included a preliminary site layout developed in accordance with current Department of Defense Anti-Terrorism/Force Protection Measures for Buildings, grading and engineering design analysis. Final design included civil engineering construction drawings and specifications for the proposed site. Engineering work included coordination and permitting with local and state agencies, demolition plan development, geometric site layout, utility infrastructure design, erosion and sediment control design, stormwater pollution prevention plan development, NPDES permit coverage, site grading and earthwork analyses, stormwater management design, coordination of landscape plan development. Participated in project design review meetings. Responsible for managing geotechnical and surveying subconsultants. Baker designed a new 88,500-square-foot multi-story Training Center, Organized Maintenance Shop/Area Maintenance Support Activity (OMS/AMSA), and unheated storage (STRG) to accommodate 600 reservists. The project also included paving design for on-site parking and storage for military vehicles and for privately owned vehicles. An integrated design approach was used to achieve a Gold SPiRiT sustainability rating.

## Jason Smithson, PS

Surveyor

### General Qualifications

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Mr. Smithson has extensive surveying experience with federal, state, and local authorities in providing complicated and unique surveys throughout the Mid-Atlantic region. His experience includes monitoring surveys, GPS control surveys, topographic and boundary surveys; transportation surveys, utility right-of-way surveys; utility as-builts; construction stakeout of residential, commercial, and industrial buildings; recreational facilities; streets; and utilities.

Years with Baker: 5

Years with Other Firms: 7

#### Education

BS, 1999, Geology, West Virginia University

#### Licenses/Certifications

Professional Surveyor, West Virginia

OSHA 40-Hour HAZWOPER, 1999

OSHA 10-Hour Safety Training, 2005

### Relevant Experience

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**Various WVDOH Highway Projects, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Geotechnical Geologist, Project Surveyor and Engineering Technician. Mr. Smithson provided subsurface investigation data, topographic mapping, and right of way services on several WVDOH projects for various highway consulting engineering firms. Responsibilities on these projects consisted of the generation of site surveys, property boundary mosaics, courthouse research, right of way questionnaires, and the development of right of way plans and parcel descriptions. Additionally, he provided geologic analysis data for the subsurface investigation to support the Geotechnical Engineering functions toward the development of highway construction plans. This work included locating all physical and topographic features, utility locations, storm drainage features, property boundary lines, courthouse research and interaction with all existing property owners to complete property questionnaires for right of way acquisition, drill program planning, core logging and analysis, and cut-fill slope design.

**Various Sidewalk Projects, West Virginia.** *Various West Virginia Municipalities.* As a Project Surveyor, Mr. Smithson established horizontal and vertical control and provided topographic mapping by conventional and GPS survey methods, to provide data for the creation of plan sheets for the construction of new sidewalks, as well as civil engineering to correct existing poor drainage concerns in various communities throughout West Virginia including: Town of West Milford, West Virginia; Town of Mason, West Virginia; Town of Hambleton, West Virginia; and the Town of Moorefield, West Virginia.



**Campus Master Planning and Architectural and Engineering Services for State Capitol Complex, Charleston, West Virginia.** *State of West Virginia General Services Division.* Researcher. Involved in various meetings with utility companies and officials from the Capitol Complex. Assisted CADD personnel by placing all the various utilities found within the project area onto maps generated. Baker is providing comprehensive master planning services, plans and construction specifications, and construction administration for improvements to the historic West Virginia state capitol campus. Master planning services include plans for expansion, location of new buildings, pedestrian and traffic circulation, landscaping, utilities, and site security. Baker is also providing construction plans and contract administration services for some of the security and landscaping improvements.

**A/E Services for the Office of the Adjutant General, West Virginia Army National Guard, Division of Engineering and Facilities, Charleston, West Virginia.** *State Army National Guard Headquarters.* Surveyor. Responsible for using real time GPS to actually topo top of roof. Located all of structures such as heating and cooling units, vents and piping. This material was provided to CADD drafting personnel who created design drawings for projects. The Facilities Management Officer (FMO) for the State of West Virginia, Division of Engineering and Facilities (DEF), West Virginia Army National Guard (WVARNG) selected Baker for a lump sum/fixed fee contract for architectural and engineering services. Baker was selected by the Division of Engineering and Facilities to provide complete design and construction administration services for the renovation of the first floor of the entire wing of the Office of the Adjutant General (TAG). The Owner requested the need for modernization of approximately 12,000 square feet of existing outdated office space - project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, alterations to the existing floor plan, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal.

**Joe Crowder, PS**

Surveyor

**General Qualifications**

Mr. Crowder is a surveyor at the Charleston, West Virginia office of Baker's South Region. Mr. Crowder has over 20 years of diverse experience that includes assignments in civil design, surveying, construction inspection and field testing.

**Relevant Experience**

**Campus Master Planning and Architectural and Engineering Services for State Capitol Complex, Charleston, West Virginia.** *State of West Virginia General Services Division.* Researcher. Involved in various meetings with utility companies and officials from the Capitol Complex. Assisted CADD personnel by placing all the various utilities found within the project area onto maps generated. Baker is providing comprehensive master planning services, plans and construction specifications, and construction administration for improvements to the historic West Virginia state capitol campus. Master planning services include plans for expansion, location of new buildings, pedestrian and traffic circulation, landscaping, utilities, and site security. Baker is also providing construction plans and contract administration services for some of the security and landscaping improvements.

**A/E Services for the Office of the Adjutant General, West Virginia Army National Guard, Division of Engineering and Facilities, Charleston, West Virginia.** *State Army National Guard Headquarters.* Surveyor. Responsible for using real time GPS to actually topo top of roof. Located all of structures such as heating and cooling units, vents and piping. This material was provided to CADD drafting personnel who created design drawings for projects. The Facilities Management Officer (FMO) for the State of West Virginia, Division of Engineering and Facilities (DEF), West Virginia Army National Guard (WVARNG) selected Baker for a lump sum/fixed fee contract for architectural and engineering services. Baker was selected by the Division of Engineering and Facilities to provide complete design and construction administration services for the renovation of the first floor of the entire wing of the Office of the Adjutant General (TAG). The Owner requested the need for modernization of approximately 12,000 square feet of existing outdated office space - project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, alterations to the existing floor plan, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal.

**Years with Baker:** 4

**Years with Other Firms:** 20

**Education**

A.S., 1989, Computer Aided Drafting, West Virginia State University

**Licenses/Certifications**

Registered Land Surveyor, West Virginia

Real Estate License, West Virginia



**U.S. 33 Streetscape Improvement Project - Phase II, Mason.** *Town of Mason.* Surveyor. Used total station to stake out drop inlets, manholes, and to set stakes along the entire length of the sidewalk. Baker performed complete detailed design, construction document preparation and construction management services for new sidewalks and storm sewer improvements the Mason Phase II Streetscape Project. The improvements included concrete sidewalks with integral concrete curbs, driveway curb cuts, ADA accessible curb ramps with truncated domes, ladder-style crosswalks, storm sewer improvements, benches and trash receptacles. Baker provided construction administration and inspection services.

**Appalachian Corridor H Environmental Impact Statement, Appalachian Highlands Region, Elkins, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Surveyor. Responsible for survey work on isolated sites in need of additional topo work because of specific site needs pertaining to ground slip sites and wetland delineation. The Appalachian Corridor H is a 100 mile proposed four-lane highway intended to provide access from Interstate 81 in Northwestern Virginia through the rugged, mountainous terrain of West Virginia's Appalachian Highlands Region. Baker was responsible for preparing the tiered Corridor H Supplemental EIS study. This consisted of a corridor-level study evaluation (Corridor Selection EIS) to determine the environmental and engineering constraints existing along 24 potential alternative corridors (Tier 1) and a follow-on Alignment Selection FEIS (Tier 2). Baker also provided advanced preliminary engineering on the preferred alignment. Following the 1996 Record of Decision, the WVDOT and FHWA were sued in Federal District and Appeals Courts by a coalition of 13 environmental groups. Baker provided lawsuit support for legal council during that period-project is now under construction and Baker is providing environmental monitoring and engineering services.





### 4.2.3 Project Organization



### 4.2.3. Project Organization

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- a. *Provide information on the personnel who will manage and persons proposed to be assigned to the project. Provide locations of firm's offices and indicate from where the project will be managed and the work performed. Provide a project organizational chart including key personnel and the proposed organization of the project team.*

#### Key Management Personnel

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The management approach for this assignment will follow '**The Baker Way**' which is the clearly defined and scalable internal process by which all projects are managed throughout Baker. This process requires administrative training for all Project Managers. The training module is known as **Baker BEST** (Business Enterprise Systems Training) and includes project setup, delivery and billing modules.

Through better organization, tools and methods to monitor budgets, an emphasis on communication, and a structured approach to delivering quality, '**The Baker Way**' clearly provides considerable value to our clients.

Baker's Charleston office possesses a diverse engineering, architectural and environmental planning staff. Baker's proposed team of experienced professionals has demonstrated the ability to deliver quality work products to our clients, on time and within budget. While Baker can provide the entire depth of services necessary to complete the project, we will be willing to subcontract certain services (i.e., surveying, geotechnical engineering, inspection and testing, etc.) in an effort to control cost or to meet any small and/or disadvantaged business participation goals established by the principal funding agency.

Each individual on this project team has extensive experience in their field of expertise and have demonstrated success on projects of similar size and scope, as well as experience with all regulatory agencies that will be involved. The following provides a brief discussion of each team member's experience base relevant to this project. The Baker Team's organization chart is provided at the end of this section.

**Project Manager – Todd Schoolcraft, PLA, ASLA (Charleston, West Virginia):** Mr. Schoolcraft brings over 17 years of design and project management experience to the project. He is currently serving as landscape architect for the West Virginia General Services Division's project for Campus Master Planning for the State Capitol Complex. In addition to his experience in private practice, Mr. Schoolcraft is recently retired from the West Virginia Army National Guard where he was involved in the planning and design of numerous AT/FP and security-related projects locally and over-seas. Mr. Schoolcraft will act as Project Manager for the West Virginia Capitol Security project.

**Principal-In-Charge – Russell Hall, PE, PS (Charleston, West Virginia):** Mr. Hall, Assistant Vice President, is Office Manager of Baker's Charleston, West Virginia office. He is an experienced engineer who has been involved in numerous design projects in West Virginia for over 25 years. His project management responsibilities involve overseeing staff from project inception through completion, and ensuring that the clients' needs and requirements are met. His strengths include organizing and managing project teams, quality control and quality assurance, and problem resolution. Mr. Hall provides overall direction and maintains direct communications with all clients. His responsibility is to ensure that Mr. Bolen has all of the resources needed for the successful execution of your project, and that all quality programs are followed.



**QA/QC Manager – Ron Bolen, RA, AIA, LEED® Green Associate (Charleston, West Virginia):** Mr. Bolen brings over 39 years of design and project management experience to the project. He is currently serving as architect for the West Virginia General Services Division's project for Campus Master Planning and Architectural and Engineering Services for the State Capitol Complex, and for the rehabilitation design of dozens of restrooms in the historic State Capitol building. Over the past decade, he assisted in the several security-related projects ranging from federal prisons and juvenile detention facilities to the West Virginia Capitol Master Plan. Mr. Bolen will act as Project Manager for the West Virginia Capitol Security project.

**Life Safety Services – Duncan Penney, RA, LEED® AP (Moon Township, Pennsylvania):** Mr. Penney has performed project design, project management, design charrettes, feasibility studies, construction administration, and specification writing. A Certified Construction Specifier (CCS), he is skilled in producing construction documents. He is also a U.S. Green Building Council, LEED® accredited professional, and experienced in life safety evaluations and ADA Guidelines.

**Security Designer – Kenneth Zaklukiewicz (Alexandria, Virginia):** Mr. Zaklukiewicz is the Senior Program Manager within Baker's Emergency Management Services Division. He develops security plans, evacuation plans, emergency operations plans, and Continuity of Operations (COOP) plans. As an Emergency Manager, he has hands-on experience in emergency response operations in coordinating the efforts of fire, HazMat, bomb disposal, law enforcement, and other emergency management disciplines. He conducts key infrastructure vulnerability and threat assessments utilizing his extensive Chemical, Biological, Nuclear, and Explosive (CBRNE) expertise. He completed a 22-year military career in Emergency Management and specialized in emergency planning and CBRNE response.

**Senior Security Advisor – John Porco, PE (Alexandria, Virginia):** Mr. Porco serves as Senior Director for Homeland Security at Baker. He has 30 years of experience in emergency management and infrastructure protection, first with U.S. Department of Transportation (DOT) and then with Baker. At DOT, he directed a multi-million dollar program to prepare for, and provide, transportation resources in disasters and terrorist incidents. At Baker, he has managed a wide variety of major projects, leading Baker's infrastructure security program. He supervised the development of vulnerability assessments and security mitigation plans for 11 large water and wastewater systems nationally, which included an evaluation of perimeter security at essential water treatment facilities and office and yard campuses. He conducted a security assessment of critical highway facilities owned by Arizona DOT and developed protective plans for their structures. Mr. Porco completed a Security Assessment for Salt Lake City prior to the 2002 Winter Olympics, and led the development of the first security guidance for the water sector and a study on the state-of-the art in water security for DHS. Finally, he assisted both Virginia and Arizona in preparing their first terrorism response strategies. He is active in a variety of pertinent organizations, including the National Emergency Management Association, the International Association of Emergency Managers, a number of State EM associations, ASIS International, and the American Water Works Association, where he serves on the Emergency Preparedness and Security Committee. Mr. Porco has a SECRET security clearance and is a Registered Professional Civil Engineer.

**Security Planner – Diana Hartman, AICP, NCI (Alexandria, Virginia):** Ms. Hartman is a certified planner with several years of diversified professional experience. She has worked on a wide range of projects including antiterrorism/force protection (AT/FP) planning for military bases. She has represented Baker at "Antiterrorism/Force Protection AT/FP Doing It By The Book," the 2003 ANG CEC Conference. Her experience also includes writing comprehensive master plans, creating conceptual site plans for property development purposes, and designing initial subdivision layouts. Ms. Hartman has completed "Crisis Preparedness Planning for School Administrators" through West Virginia University.



**Utilities – David Hilliard, PE, LEED® Green Associate (Charleston, West Virginia):** Mr. Hilliard is a mechanical engineering technician with a wide range of hands-on design and construction experience. His recent project experience includes providing HVAC load calculations, as well as utility evaluation and planning, for the West Virginia State Capitol Complex Master Planning and Architectural and Engineering Services, and the complex mechanical design of a large Charleston, West Virginia hospital. He recently received his LEED® Green Associate accreditation.

**Utilities – Ron Schirato, PE (Moon Township, Pennsylvania):** Mr. Schirato has extensive experience in site development on commercial, military, and residential properties.

**Civil Engineer – Patrick Fogarty, PE, PS (Charleston, West Virginia):** Mr. Fogarty is the Civil Services Group Manager for Baker's Charleston office and is a Registered Professional Engineer and Licensed Professional Surveyor in multiple states. Mr. Fogarty has provided design engineering on numerous security-related assignments at public, private and military facilities. Projects have included public and private airport facilities to FAA and TSA Standards, and DoD facilities to U.S. Air Force and U.S. Army Standards. Security elements have included the design and specification of CCTV cameras, access control systems, baggage handling systems and security fencing.

**Landscape Architect – Laura Cox, RLA, ASLA, LEED® Green Associate (Charleston, West Virginia):** Ms. Cox is a Registered Landscape Architect with over 30 years of experience in landscape architecture and land planning. She has knowledge of all phases of design from site analysis and conceptual planning through construction documentation, permitting and, administration. Her design experience includes large-scale site preparation and grading, drainage analysis, stormwater conveyance and detention, and utility and infrastructure design.

**Surveying/Mapping – Jason Smithson, PS (Charleston, West Virginia):** Mr. Smithson has extensive surveying experience with federal, state and local authorities in providing complicated and unique surveys throughout the Mid-Atlantic region, including a multitude of project throughout the state of West Virginia. His experience includes monitoring surveys, 3D laser scanning, GPS control surveys, topographic and boundary surveys; transportation surveys, utility right-of-way surveys; utility as-builts; construction stakeout of residential, commercial, and industrial buildings; recreational facilities; streets; and utilities.

**Surveying/3D Laser Scanning – Joe Crowder, PS (Charleston, West Virginia):** Mr. Crowder has over 18 years of surveying/civil engineering experience and will provide civil-related services for this project. Mr. Crowder brings extensive design, surveying, construction inspection and field testing experience from numerous facilities projects. He is experienced in boundary, topographic and GPS control surveys and has worked extensively at the West Virginia State Capitol campus.

## Office Locations

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The management team and key personnel assigned to this project are located in three Baker offices: Charleston, West Virginia, Alexandria, Virginia and Moon Township (Pittsburgh), Pennsylvania. The office location for each key person is included above under Key Management Personnel.

Mr. Todd Schoolcraft, PLA, will manage the project from Baker's Charleston office. He has an established working relationship with the appropriate state officials and is located within minutes from the proposed project site. He is currently serving as the Lead Landscape Architect on the Capitol Campus Complex Master Plan project.

Mr. Russell Hall, PE, PS, is the Office Manager of Baker's Charleston office, as well as an Assistant Vice President of the corporation. He will provide Mr. Schoolcraft with the required support and resources, as well as oversee the management, design and quality processes of the project team.

Other Charleston, West Virginia personnel include Utilities, Civil Engineer, Landscape Architect and Surveying. All other key personnel and disciplines are located at Baker's Moon Township (Pittsburgh), Pennsylvania, or the Alexandria, Virginia offices.

Baker is internally structured to successfully accomplish projects performed by personnel that are located across the country. Project files are stored on servers that use Internet-protocol; every team member has access to, and uses, the same electronic files, reducing the possibility of multiple file versions and errors. All electronic documents and files (meeting minutes, transmittals, drawings, etc.) for all Baker projects are stored on our project server using a pre-established file structure directory. As mentioned earlier in this section, all projects are required to adhere to **'The Baker Way'**. **'The Baker Way'** clearly defines the process for which all projects are managed throughout Baker. The ultimate objective of the process is improving project performance through product delivery excellence. Through better organization, tools and methods to monitor budgets, an emphasis on communication, and a structured approach to delivering quality, **'The Baker Way'** clearly provides considerable value to our clients, the company and its shareholders.

The key features of this system are:

- Improving project performance through consistency, organization and efficiency throughout the entire Engineering Division.
- Defining project management processes for every project, but is scalable to appropriately fit the scope and size of any project.
- Serving as a one-stop reference for forms, policies, references and procedures required to properly manage a project.
- Leveraging existing best practices throughout Baker, as well as referencing accepted and established practices from outside sources.
- Providing management tools, procedures and references at the fingertips of project managers through a user friendly, intuitive site.
- All team members are familiar with this process, which allows for organized and quick access and retrieval of information.

*b. Provide a statement or evidence of the firm or team's ability to provide services.*

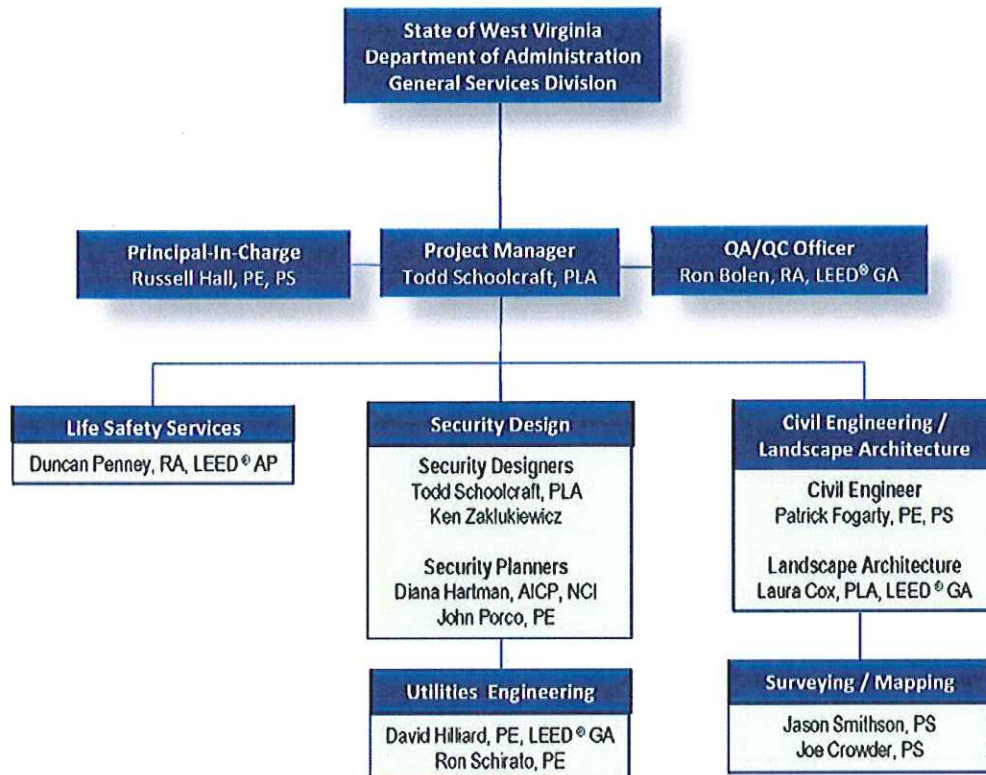
The proposed members of the Baker Team, as described in this submittal, are available for the execution of the Capitol Campus Security project. Baker's local/regional professionals and technical personnel number in excess of 800, in all disciplines. Should additional personnel be required, in any discipline, the Baker Team has the capacity to fulfill those requirements.



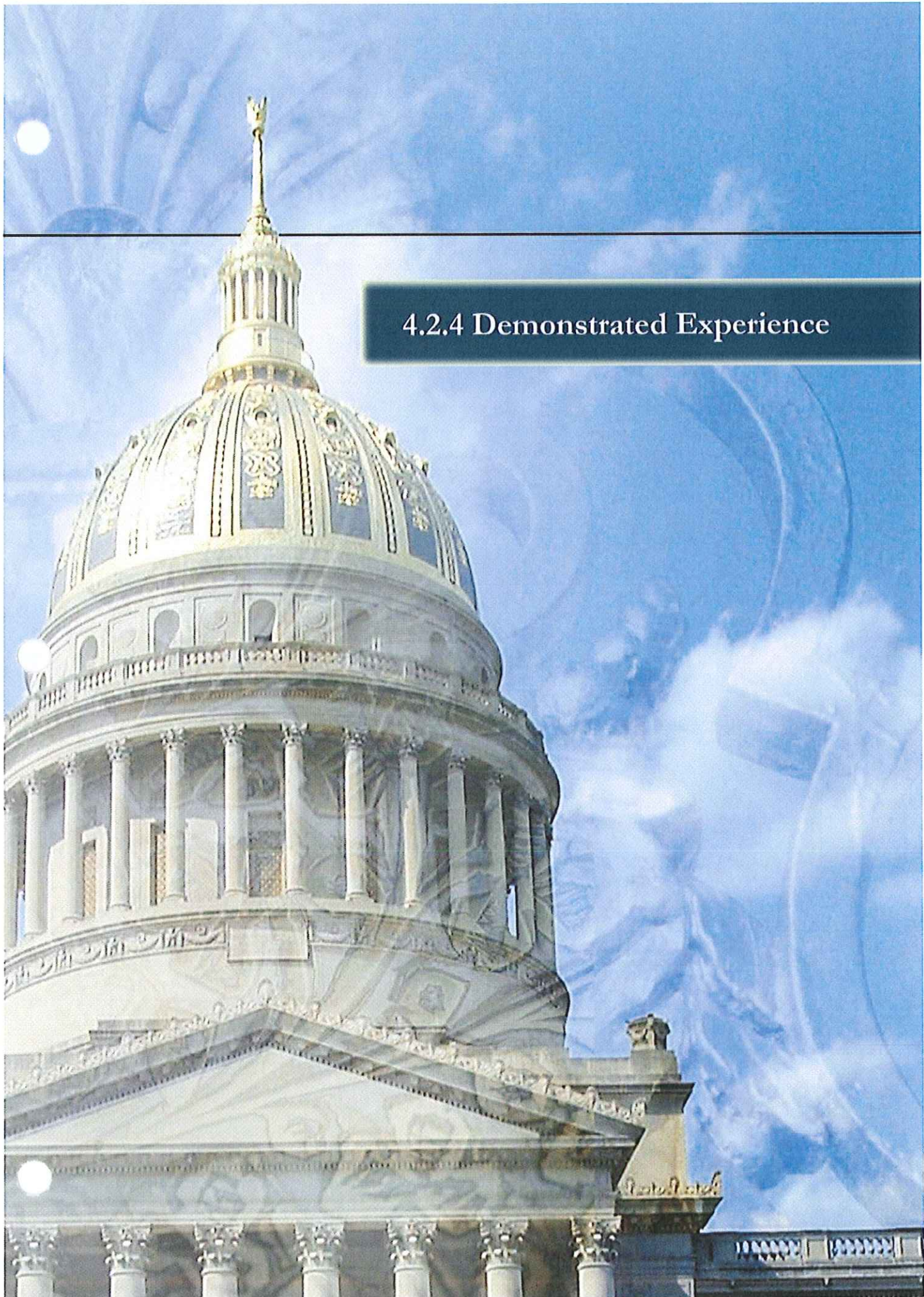
Management Organizational Chart

WV Capitol Campus Security Project  
GSD126428

Baker







## 4.2.4 Demonstrated Experience



#### 4.2.4. Demonstrated Experience In Completing Projects of a Similar Size and Scope

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- a. *Provide descriptions of relevant projects demonstrating the firm's ability to execute projects similar to those described in this Expression of Interest. Provide descriptions of not more than ten projects performed in the last ten years. Projects of interest should include work performed within the State of West Virginia.*

Baker has provided six project examples of work performed during the last ten years that demonstrate our ability to execute projects similar to the proposed West Virginia State Capitol Campus Security Design project, as well as projects that demonstrate experience working within the State of West Virginia.

## Campus Master Planning and A&E Services for State Capitol Complex

*Charleston, West Virginia*

Baker is providing comprehensive master planning services, plans and construction specifications, and construction administration for improvements to the historic West Virginia state capitol campus.

The campus is a 54-acre site on which the State Capitol building, the Governor's mansion, state offices, a cultural center and museum, a historic mansion dating back to 1820, and several statues and fountains are located. The campus is part of the City of Charleston's historic district, and several of the buildings are listed in the National Register of Historic Places. The campus is frequently used for festivals and other public events, and is a major tourist attraction.

The capitol complex has grown from 12 to 54 acres since its founding in the early 1920s, and currently has approximately 768,000 feet of office space and employs approximately 5,000 people. The last campus master plan was completed in the late 1960s.

Baker's master planning services include planning for a proposed campus expansion; pedestrian and traffic circulation plans; parking plans; plans for the location of new buildings and facilities; site utility planning, including buried utilities and lighting; site security planning, and landscaping. Possible additions to the complex include a financial center, a daycare center, and additional office buildings and parking facilities.

All plans are required to be compatible with the original plans for the site, which were developed by the capitol building's architect in 1925, but must also accommodate current and future state government needs.

In addition to developing a comprehensive master plan, Baker is preparing architectural and engineering plans and construction documents for landscaping, security, parking, pavement, and other improvements recommended by the master plan. Design services include architectural, civil, mechanical, and electrical engineering services, and energy conservation (LEED®). Baker will also provide contract administration services for some of the landscaping and security improvements.

### **Value-Added**

Baker is meeting the challenge of planning and designing improvements to a nearly century-old government complex and matching the historic architecture and ambiance of the site, while meeting the current and future needs of employees and visitors and accommodating new facilities. The complex is a tourist attraction and is the venue for numerous public events, and is the site of state government agencies that must remain open to the public. Baker must balance this need for public accessibility with needed security improvements. In addition, the improvements must include sustainability and energy conservation measures.

### **Client**

State of WV General Services Division  
Department of Administration  
1900 Kanawha Boulevard East  
Building 1, Room MB-60  
Charleston, WV 25305

### **Client Contact**

Robert Krause, PE, AIA, 304-558-9018

### **Completion Date & Percentage Complete**

2012  
Complete: 100%

### **Project Costs**

\$887,880 (Fee)

### **Baker's Role**

Master planning  
Architectural design  
Civil, mechanical and electrical engineering  
Historic preservation  
Energy conservation and LEED®  
Construction administration





## Force Protection Improvements

*Aberdeen Proving Ground, Maryland*

Safety and force protection, as it pertains to military installations, have always been a top priority. In an effort to increase security at Aberdeen Proving Ground, Baker is providing comprehensive force protection planning and design services. These have encompassed stand-off studies of critical facilities (143 buildings), gate redesign, perimeter security and fencing upgrades for the entire base, and security enhancements to water and utility systems. Particularly noteworthy are the improvements to base entry gates which have included traffic and parking studies, addition of two new guard gates, redesign of four guard gates, design of two new visitor centers, utility redesign, active and passive barriers, and new truck search areas. This project also included cost estimating and funding strategies.



### Client

U.S. Army Corps of Engineers, Baltimore  
District, Engineering Division  
P.O. Box 1715  
Baltimore, MD 21203-1715

### Client Contact

Frank Cirincione, 410-962-4170

Completion Date & Percentage Complete  
2012

Ongoing

### Project Costs

\$30,000,000 (Fee since 1993)

### Baker's Role

Planning  
Traffic Studies  
Architecture  
Landscape Architecture  
Civil Engineering



## Public Safety Center Improvements

*City of Alexandria, Virginia*

When the U.S. Department of Justice made the decision to try suspected terrorists associated with the September 11 attacks at the new Federal Courthouse in Alexandria, the City of Alexandria was faced with holding some of the most dangerous detainees in the world.

In keeping with the increased threat, the City moved rapidly to enhance security at its Public Safety Center, which is located near the Federal Courthouse. An intensive study was performed to identify potential threats and determine how the existing facility could best be fortified to withstand those very real threats. Baker then provided design and construction administration services on an extremely accelerated basis. Improvements to the facility include new barriers, guard gates, fencing, a new parking lot, new security checkpoint station, and closed-circuit television cameras.

### Client

City of Alexandria, Virginia  
301 King Street  
Alexandria, VA 22314

### Client Contact

Edward Mandley, 703-746-4770

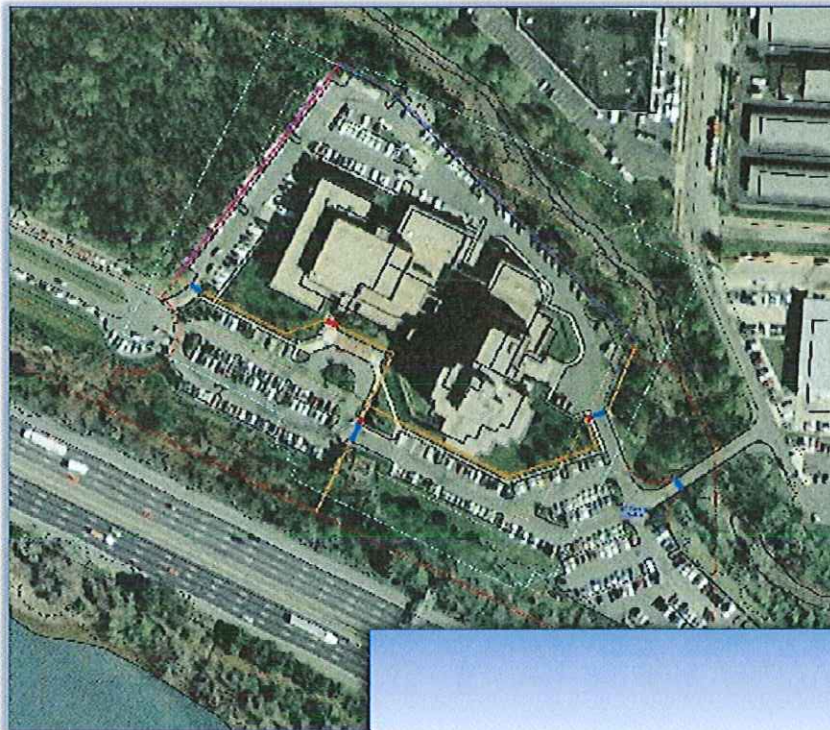
**Completion Date & Percentage Complete**  
2004

### Project Costs

\$76,832 (Fee)

### Baker's Role

Anti-terrorism/Security Plan  
Architecture  
Electrical Engineering  
Structural Engineering  
Civil Engineering  
Environmental Engineering





## Security Enhancements and Improvements

*City Hall and U.S. Federal Courthouse, Alexandria, Virginia*

Included as part of the previous project (Public Safety Center Improvements), Baker provided planning, design and construction administration services on an extremely accelerated basis. Tasks included planning and mapping of security posts, new physical barriers, guard gates, areas of responsibility and areas of observation, fencing, routing diagrams, a new parking lot, new security checkpoint station, closed-circuit television cameras, and GIS mapping.

At City Hall, the scope included operational, physical and technology analysis in order to devise security solutions that would still retain the "open government" functionality of the facility.

### Client

City of Alexandria, Virginia  
301 King Street  
Alexandria, VA 22314

### Client Contact

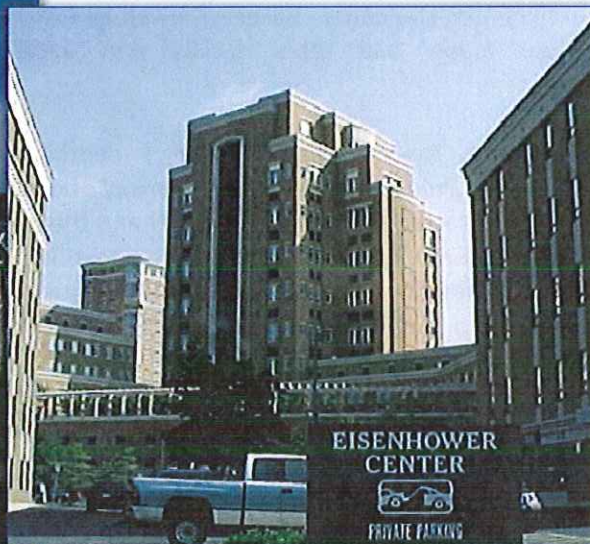
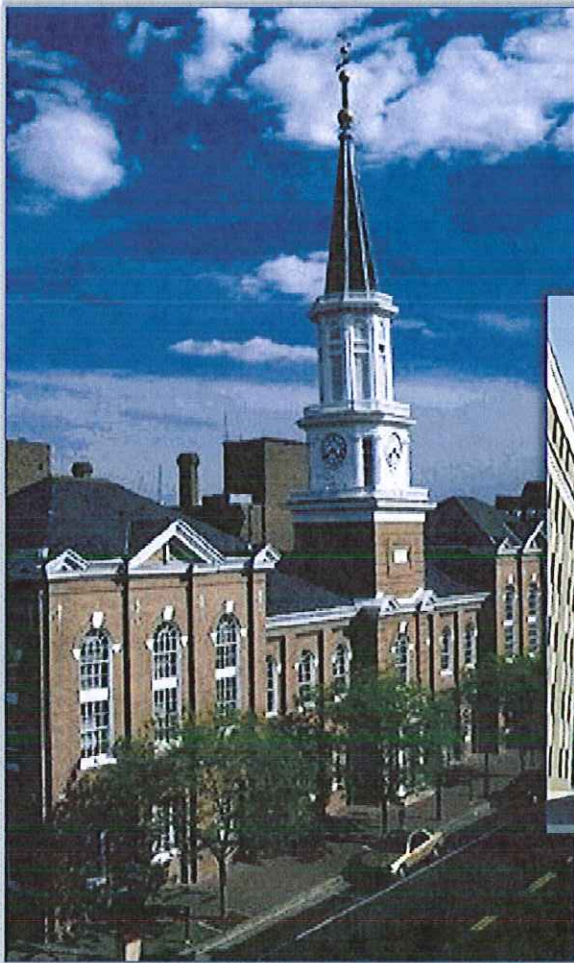
Edward Mandley, 703-746-4770

**Completion Date & Percentage Complete**  
2002

**Project Costs**  
\$49,449(Fee)

### Baker's Role

Planning  
Threat Assessment  
Architecture  
Electrical Engineering  
Structural Engineering  
Civil Engineering  
Environmental Engineering





## Anti-Terrorism Study, Anti-Terrorism/Force Protection Planning

*Multiple Locations, Nationwide*

Baker investigated the constraints and impacts of the United Facilities Criteria (UFC) draft, Department of Defense Minimum Anti-Terrorism Standards for Buildings (22 April 2002) on Air National Guard Bases. The study also included the impact of Air Force Vulnerability Assessments. For the purpose of this project, only primary and inhabited facilities were identified that, due to location and other constraints, required a building analysis to solve Anti-Terrorism Force Protection issues.

The initial phase of the project was to develop a model for the documentation and analysis of three Bases. Once the strategy and process for the activity was tested on the three "pilot" Bases, the study was expanded to include 27 additional Air National Guard Bases, followed by another 36 Bases for a total of 66 Bases. The intent is that all Bases will be studied in the future. Project locations for Phase I included Phoenix, Arizona; Gulfport, Mississippi; and Tulsa, Oklahoma. The analyses included:

**Document Existing Conditions and Evaluate Impacts from the Unified Facilities Criteria Anti-Terrorism Standards.** Baker determined which facilities are classified as primary gathering, inhabited, billeting or unoccupied. Standoff distances for conventional construction were analyzed. This information was used to determine vulnerability and compliance with minimum standards. Baker reviewed all existing aerial photography, base maps, and other facility and infrastructure information.

**Assessment of Impacts.** The assessment included identification and confirmation of all constraints, including size and density of containment areas. Individual Base Master Plans were reviewed and the impacts of ATPF criteria were determined. The team also identified existing facilities that, due to location, will require further analysis to mitigate the threat posed due to non compliance with the standards.

**Order of Magnitude Estimates and Cost Data.** Cost estimates were prepared for designs to mitigate impacts identified relative to standoff distances, building operations, parking, roads, driveways, trash, and other issues.

**Prioritization.** Meeting with Wing Commanders and Base Civil Engineers, actions required to mitigate terrorism threat were prioritized. These meetings addressed anti-terrorism standards, functional and locational needs of each of the units, including constraints of property/leasehold lines, base entrances, and items for immediate action.

### Client

Air National Guard CRTC/FMB  
4175 Hewes Avenue, Building 1  
Gulfport, MS 39507-4324

### Client Contact

Bill Mell, 309-633-5565

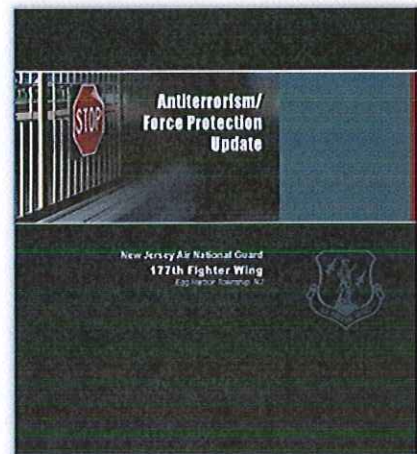
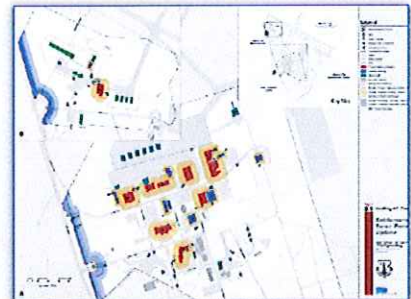
**Completion Date & Percentage Complete**  
2003

### Project Costs

\$89,902 (Fee)

### Baker's Role

Anti-Terrorism/Force Protection Planning  
Comprehensive Master Planning  
Simultaneous Project Planning





## WVARNG Charleston Armory HVAC and Architectural Renovations

Charleston, West Virginia

Constructed in 1961, the existing facility started as the Coonskin Armory. The Headquarters Building was constructed simultaneously with the Coonskin Armory and occupied the second floor. As a separate structure, also in 1961, the Adjutant General's Wing (TAG Wing) was constructed nearby. In 1984, the Coonskin Armory/Headquarters Building was physically connected to the TAG Wing with an area of administrative offices that also includes a Child Development Center. This final major construction project connected all of the buildings into one major facility of over 50,000 square feet, referred to as the Charleston Armory.

The West Virginia Army National Guard (WVARNG) Construction and Facilities Management Office (C&FMO) requested a study be conducted of the consolidated facility, known as the Charleston Armory, to consider such items as the condition of existing HVAC/MEP systems, and proposed improvements or upgrades to these systems; examine the existing building envelope and recommend possible improvements to the envelope; and investigate the requirements of LEED®-certification as it relates to the existing buildings.

### Client

West Virginia Army National Guard  
Division of Engineering and Facilities  
1703 Coonskin Drive  
Charleston, WV 25311-1085

### Client Contact

Major Michael Beckner, 304-561-6333

### Completion Date & Percentage Complete

2010  
Complete: 100%

### Project Costs

\$72,100 (Fee)

\$2,990,000 (Estimated Construction)

### Baker's Role

Planning

Architecture

Mechanical Engineering

Civil Engineering

CADD Drafting

Bidding

Construction Administration



- b. Provide references for the last five clients for whom the firm has conducted projects of a similar size and type; include the name of the contact person along with the address, telephone number and short description of the project.

Project Information	Reference Contacts
<b>Capitol Campus Master Plan, Charleston, W.V.</b> Baker is providing comprehensive master planning services for the 54+ acre historic State Capitol Campus including parking, utilities, security, landscaping, circulation, and building assessments.	<b>State of WV Department of Administration General Services Division</b> Building 1, Room MB60 1900 Kanawha Boulevard, East Charleston, West Virginia 25305 Robert Krause, PE, AIA, 304-558-9018
<b>Force Protection Improvements, Aberdeen Proving Ground, Md.</b> Baker is providing comprehensive force protection planning and design services. These have encompassed stand-off studies of critical facilities, gate redesign, perimeter security and fencing upgrades for the entire base, and security enhancements to the utility systems.	<b>U.S. Army COE, Baltimore District, Engineering Division</b> Post Office Box 1715 Baltimore, Maryland 21203-1715 Frank Cirincione, 410-962-4170
<b>TAG Wing Renovations, Charleston, WV</b> Baker provided complete design and construction administration services for renovations to the Adjutant General's Wing of the WVAirNG Headquarters complex. During the construction phase, this project was combined with the HVAC and Architectural Renovation project for the Charleston Armory Headquarters.	<b>West Virginia Army National Guard Division of Engineering and Facilities</b> 1703 Coonskin Drive Charleston, West Virginia 25311-1085 Major Michael Beckner, 304-561-6333
<b>Little Kanawha Bus Facility, Mt. Zion, WV</b> Baker is providing complete design and construction administration services for a new administrative and maintenance facility. The project includes architecture, engineering, landscape architecture, and site security.	<b>West Virginia Division of Public Transit</b> 1900 Kanawha Boulevard, East Charleston, West Virginia 25305 Susan O'Connell, Director, 304-558-0428
<b>Capitol Restroom Renovations, Charleston, WV</b> Baker is providing complete design and construction administration services for the renovation/restoration of 35 restrooms in the Main Capitol Building.	<b>State of WV Department of Administration General Services Division</b> Building 1, Room MB60 1900 Kanawha Boulevard, East Charleston, West Virginia 25305 Robert Krause, PE, AIA, 304-558-9018