State of West Virginia
Department of Administration
Purchasing Division

N O T I C E

Due to the size of this bid, it was impractical to scan every page for online viewing. We have made an attempt to scan and publish all pertinent bid information. However, it is important to note that some pages were necessarily omitted.

If you would like to review the bid in its entirety, please contact the buyer. Thank you.

***

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

June 17, 2010

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

RE: Expression of Interest to Provide Architectural / Engineering Design Services
DEFK10020 – Buckhannon Field Maintenance Shop
WV Army National Guard, Upshur County, West Virginia

Dear Mr. Bowman:

Michael Baker Jr., Inc. (Baker) is pleased to present our qualifications and experience as it relates to the design of the new Buckhannon Field Maintenance Shop, for the West Virginia Army National Guard. During your review of the enclosed information, you will see that Baker has completed or is currently working on projects *identical* to those outlined in your solicitation.

Baker is a global engineering and energy firm with some 2,800 members in over 86 office locations. We propose to manage this assignment from our Charleston office which employs over 40 individuals including architects, landscape architects, engineers, planners, surveyors, environmental specialists, and technicians.

We feel this combination of global expertise and regional experience is unique to Baker and will provide efficient, timely, personal, cost effective, and quality solutions for the West Virginia Army National Guard and the Division of Engineering and Facilities.

We continue to strive to be the best at what we do. No other firm can match our commitment. Please call us for an interview so that we can present our qualifications and convince you, in person, that Baker is eager to forge a long-term relationship with the Division of Engineering and Facilities. We would welcome the opportunity to become your best project delivery team. For the purposes of future contact and further questions, please contact me at (304) 769-0821 or by e-mail at rhall@mbakercorp.com.

Sincerely,

Michael Baker Jr., Inc.

Russell Hall, PE, PS
Assistant Vice President and Principal-In-Charge

Executive Summary

As an essential part of our country's defense and an integral part of the total force, the West Virginia National Guard continues its historic dual mission, providing to the state, units trained and equipped to protect life and property, while providing to the nation units trained, equipped and ready to defend the United States and its interests, all over the globe.

The Baker team understands the mission and requirements and stands ready with the experience, capability and capacity to assist the West Virginia National Guard to accomplish these challenges. The Baker team currently serves the National Guard and has worked at 56 National Guard installations. Additionally, we have worked at over 59 Air Force installations, 36 USACE Districts, and several NAVFAC Divisions on scores of successful projects.

With this submission, we present our highly skilled and experienced team, who has worked together on multiple National Guard and Army Reserve projects, prepared to support you with excellent planning, architectural, engineering, and construction phase services from concepts through operation.

We believe the Baker team is the best choice for this work because of an unmatched combination of experience, skills and proven project delivery success as is demonstrated throughout the proposal. These key advantages we offer are highlighted below:

In-depth Knowledge and Experience with the National Guard and Army Reserve Construction Program

- Knowledge of the National Guard procedures and design criteria gained from previous work with the National Guard Bureau and USPFO. We have worked on state-specific IDIQ AE contracts, as well as individual Design/Build projects.
- Extensive knowledge of Armed Forces Reserve Centers nationwide. Baker has designed over 30 Armed Forces Reserve Centers and National Guard Training Facilities over the past five years with a construction value of over $750M.
- Experience with Vehicle Maintenance Facilities, Training Centers, Administrative Facilities, Supply & Storage Facilities. We have relevant experience and technical expertise in all the components that make up an Armed Forces Reserve Center.
- Technical professionals highly trained in the design of Armed Forces Reserve Centers.
- Successful Teaming experience on multiple military Design-Build projects.
- Prepared to immediately begin work with no learning curve necessary.
- Over 2,800 technical professionals available to meet the demands of a large volume of work and simultaneous task orders

Knowledge of the Guard's Objectives and a Strong Commitment to Your Support

- The West Virginia National Guard is committed to quality. Baker is very familiar with all of the policies and procedures and fully supports this commitment, with development and monitoring of quality management plans in line with the Guard's requirements, including establishment of Independent Technical Reviews for all of our task orders.

- Our conviction to Building Information Modeling (BIM) and to helping the DoD meet its goal to deliver more projects using BIM is demonstrated in our investment. Baker has purchased unlimited licensing of BIM software for architecture and all available engineering disciplines, which includes training in our office by personnel. We are currently using BIM for all the Army Reserve projects we deliver to the Louisville District as well as most of the military projects we deliver.

- Building Energy Management. Baker understands that all of our designs need to be best value solutions for our clients including designing building systems that meet the energy reduction mandates of EPAct 2005. Baker has on staff Certified Energy Management technical professionals that understand how to implement these criteria to develop building systems that reduce energy consumption as well as result in the lowest life cycle costs to the end user.

Wide Array of Services

- A multi-disciplined project staff knowledgeable in all of the areas required under this contract, with substantial, full-service back-up support from Baker.

- The added value in our ability to provide any other peripheral service associated with facility projects from initial economic analysis, through design, operations and maintenance, and clean-up and de-commissioning.

Meeting the Need

The Baker team is working on Reserve Center projects nationwide from Fort Lewis in Washington, to Texas and New England, and Fort Allen in Puerto Rico. We are committed to putting experienced technical professionals wherever they are needed to deliver successful projects for the National Guard as well as the Guardsman and Reservists who will be using these facilities.

The Best-prepared Team to Assist the National Guard in Meeting the Requirements of Your Customers

The Baker Team is proud of the work we have done for the National Guard and Army Reserve and we welcome the opportunity to a successful partnership with our colleagues of the West Virginia National Guard in delivering important projects that serve the needs of our country's defense forces nationwide.

"The Baker team has the experience to provide creative solutions, the capacity to get the job done, the track record to control projects better and lower your risk, and the commitment to be the National Guard's partner for success."

The National Guard has long been, and continues to be, an important client to Baker, and we very much appreciate your business. We thank you for the opportunity to serve you in the past and we look at this contract as a natural extension of the good working relationship we have shared, and we are excited about the possibility of working with you on more successful projects.

Part 1 – Introduction

The WV Army National Guard – Construction and Facilities Management Office is seeking a highly qualified firm experienced in program management, planning, design, and construction to provide A/E services for the design of a new Armed Forces Field Maintenance Shop to be located in Buckhannon, Upshur County, WV. Michael Baker Jr., Inc. (Baker) is a highly qualified firm with extensive experience in providing these services, and we are extremely interested in continuing a professional relationship with the WV Army National Guard.

". . . we are extremely interested in continuing a professional relationship with the WV Army National Guard."

Corporate Capabilities

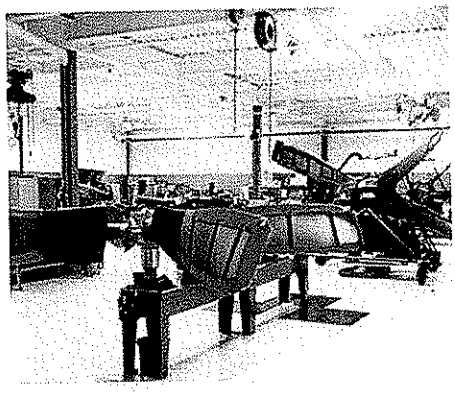
Headquartered near Pittsburgh, PA, Baker currently employs over 2,900, maintains numerous office and project locations domestically and internationally, and is publicly traded on the NYSE Amex exchange under the symbol, BKR. In 2009, the Company's continuing operations achieved total contract revenues 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 36st in ENR's Top 500 Design Firms) and as one of the Top 25 engineering firms in a variety of markets, including transportation, airports, highways, bridges, water supply, pipelines, environmental site assessments and telecommunications.

Design/Build of U.S. Army Reserve Training and Maintenance Center, Wheeling, WV

Baker has extensive resources and the required qualifications to provide planning and design services for the Office of the Adjutant General, DEF for this important project. We have nationally recognized experts with the technical experience necessary for this assignment. In addition, Baker's team of experienced professionals have an established record of delivering quality work products to our clients, on schedule and within budget.

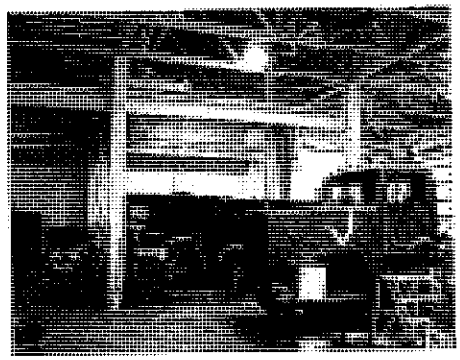
In summary, Baker's staff can provide documentation of our extensive experience in the following areas for this project:

- Nationally recognized expertise in Program Management Assignments
- Facilities (Buildings, Access, Parking, Site Development) Plan Preparation
- Construction Administration and Construction Monitoring
- Coordination with State and Federal Agencies, as required



Aircraft Engine Inspection and Repair Shop, WV Air National Guard

Baker's Charleston office is a "single-stop resource" capable of providing comprehensive professional services, from environmental planning, final design, and construction management through operational support. From major new bridges and roadway designs to surface mine permitting, aviation, and water resource projects, Baker has evolved into one of the leading engineering and energy services firms by consistently providing targeted solutions for its clients most complex challenges.



U.S. Army Reserve Readiness Training Center, OMS/AMSA, Wheeling, WV

Baker's clients for site development projects include, but are not limited to, counties, cities, towns, local municipalities, numerous state departments of transportation, military facilities, airport complexes, and private sector clients. Baker's geographic location and extensive experience enables us to quickly respond to wide-ranging scopes of service in order to meet our client's needs.

Part 2 – Qualifications

Services

- Architecture
- Building Information Modeling (BIM)
- Computer Aided Facility Management (CAFM)
- Condition Assessment
- Electrical Engineering
- Facilities Program Management
- Feasibility Studies
- Fire Protection Engineering
- Geographic Information Systems
- Interior Design & Space Planning
- Landscape Architecture
- Maintenance Management Systems
- Master Planning
- Mechanical Engineering
- Site and Civil Engineering
- Structural Engineering
- Sustainable Design
- Urban Design

Baker has a large design staff and extensive experience in design of many types of facilities, both for military installations and the private sector. Our design experience includes readiness centers, training centers, administrative offices, aviation hangars, vehicle maintenance shops, warehouses, cargo facilities, dining halls, schools, dormitories, barracks, and housing. Some of these projects include renovation and restoration of buildings that are on the National Register of Historic Places. All projects incorporate anti-terrorism and force protection measures, and most meet SPiRiT or LEED® certification requirements.

With our technical expertise and industry knowledge, we have the ability to support the evolving trends in design and construction. Baker has long performed traditional design/bid/build projects. We are also experienced in generating design/build performance bidding documents and performing design/build projects for contractors as the designer-of-record (DOR). The experience gained through our full knowledge of various project delivery methods strengthens our capabilities in maximizing client value and project quality.

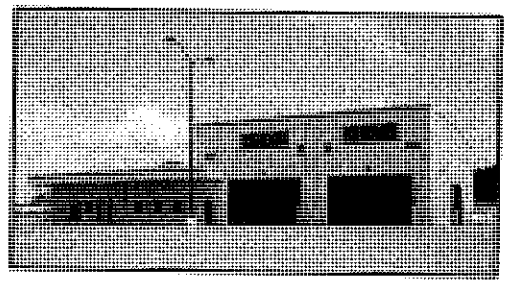
Readiness Centers

Baker holds previous and current contracts with the U.S. Army Corps of Engineers, Louisville District under which they provide architectural and engineering design services for AFRCs for design-bid-build contracts, have generated design-build RFPs, and have provided designs for contractor partners as a part of design-build teams. These facilities, designed to meet Silver LEED® sustainable standards, provide administrative, educational, assembly, library, learning center, vault, weapons simulator, medical clinic, physical fitness, kitchen/dining, and parking areas. This experience provides Baker with a very well-rounded knowledge from all aspects of project delivery.

Design/Build RFP Documents

- Revitalization of Diamond U.S. Army Reserve Center; New Orleans, LA; $14 M; 78,500-SF
- Armed Forces Reserve Center; Stewart Newburgh, NY; $20.1 M; 102,550-SF
- Armed Forces Reserve Center; Lewisburg, PA; $24 M; 80,272-SF
- Armed Forces Reserve Center; White River Junction, VT; $28 M; 109,346-SF
- Armed Forces Reserve Center; Willow Grove, PA; $32 M; 95,200-SF
- Armed Forces Reserve Center; Pease, NH; $6.9 M; 21,443-SF
- Armed Forces Reserve Center; Williamsport, PA; $18.5 M; 79,106-SF

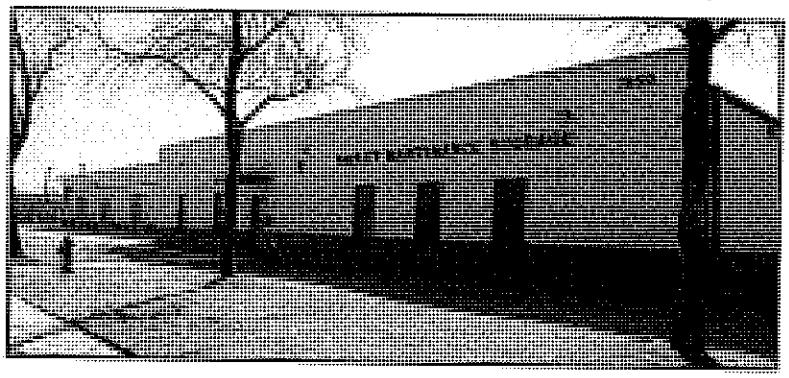
- **Tactical Equipment Maintenance Facility SATOC.** For the Tulsa District, Baker is providing design/build services for Tactical Equipment Maintenance Facilities (TEMF) with a construction value of $250 M. This contract has generated seven (7) task orders for TEMFs at Fort Bliss, TX, Ft Sill, OK, Ft Hood, TX and White Sands Missile Range, NM. These two level facilities feature maintenance bays for light and heavy tracked vehicles, machine and parts shops, administrative space, a training center, and arms vaults. All facilities meet AT/FP and LEED requirements.
- **Tactical Equipment Maintenance Facility MATOC.** Under a Savannah District MATOC, Baker is providing design/build services for six (6) TEMFs located at Fort Bragg, NC. These two level facilities feature maintenance bays for light and heavy tracked vehicles, machine and parts shops, administrative space, a training center, and arms vaults. All facilities meet ATFP and LEED requirements.



- **Tactical Equipment Maintenance Facility, Fort Drum, NY.** 35,500-SF facility consist of a vehicle maintenance shop, deployment equipment storage areas, oil and HAZMAT storage areas, and organizational vehicle parking. •Field Maintenance Shops for Stryker Brigade Combat Teams, PA. Baker is developing Design/Build RFPs to support the PAARNG's 56th Brigade's conversion to a Stryker Brigade Combat Teams. The program provides facilities for the training of soldiers and for the maintenance and storage of various military vehicles, including the Stryker lightweight tank.

Other Vehicle Maintenance Shop (VMS)/Field Maintenance Shop projects include:

- Armed Forces Reserve Center; Bell, CA; 44,000-SF VMS
- Armed Forces Reserve Center; Camp Bullis, TX; 37,622-SF VMS
- Army Reserve Center, Fort Lewis, WA: 10,702-SF OMS/AMSA
- Armed Forces Reserve Center; Grand Prairie, TX; 30,580-SF FMS
- Armed Forces Reserve Center; McAlester, OK; 25,504 SF VMS
- Armed Forces Reserve Center; Round Rock, TX; 21,400-SF FMS
- Armed Forces Reserve Center; Tyler, TX; 13,199-SF OMS
- West Ox Vehicle Maintenance Facility for Fairfax County, VA; 134,000-SF
- Equipment Maintenance & Operations Center, Rockville, MD; 164,500-SF
- Vehicle Maintenance, Storage and Administrative Facility; Hamden, CT; 290,000-SF



Part 3 – Technical Expertise

Baker can offer the Office of the Adjutant General, DEF proven experience in the following Professional Services consistent with the requirements of projects of the type identified in your Request for Proposals. These services are performed ***The Baker Way*** which means that our client benefits from the streamlined internal process of Project Management and Quality Assurance.

". . . which means that our client's benefit from the streamlined internal process of Project Management and Quality Assurance."

Preliminary Planning and Costs

During this phase, Baker proposes to prepare a Preliminary Engineering Report, Concept Plan, and Opinion of Probable Construction Cost. These documents will detail the individual elements required for the architectural, mechanical, electrical, engineering, public safety, environmental and permitting issues associated with the proposed new facility to the *United States Army National Guard Field Maintenance Shop, Buckhannon, WV.*

Members of our Charleston office have recently completed both Design Development and Construction Document submissions for local clients in accordance with the West Virginia Army National Guard, Division of Engineering and Facilities, and other local development agency requirements. These documents have since been used in the successful completion of the HVAC and Architectural Improvements to the Charleston Armory on Coonskin Drive, Charleston, WV. Detailed Cost Estimates for Construction, Operation and Maintenance, Engineering, Right of Way, and Utility Relocations are prepared and included in the Preliminary Engineering Report submittals.

Plans and Specifications Preparation

Baker has vast experience in the development of construction plans, details, and technical specifications for all types of architectural and engineering projects. Initial survey data, topography, and physical features are collected electronically and downloaded into our CADD system for use by the designers. Plan and/or Profile sheets are then developed. Detail Sheets are created from our Detail Library then modified to suit specific project applications. Specifications are created from our Master Spec Library and tailored to meet individual project requirements.

During the project design phase, Baker routinely prepares permit applications for public and private clients. We have recently been involved in this process for local Towns and Public Service Districts. Permits which may be required for this project include:

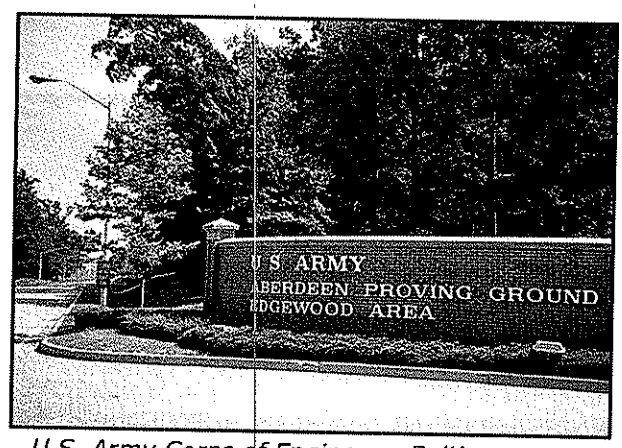
- WV Department of Environmental Protection, NPDES Permit;
- WV Department of Health & Human Resources, Water or Sewer Permit;
- WV State Historic Preservation Office (SHPO) Section 106 Review;
- WVDOT/Division of Highways, MM-109 Permit.

We have established relationships with each of these agencies which will streamline the permit acquisition process.

Construction Administrative Services

Baker is well equipped to provide the administration and inspection of construction projects. Pre-Construction and regular job-site meetings, as well as shop drawing review, requests for information, pay requests and all other construction-related correspondence will be the responsibility of the Project Manager. Resident inspection services will be conducted by Baker technicians or staff engineers trained in construction practices and certified, as required, for the particular type of installation (i.e. concrete placement, compaction, asphalt, trenching, etc.). Constant communication between field and office is essential and will be achieved via cellular telephone, internet access, and facsimile.

National Guard Bureau IDIQ, Design/Build RFQ/RFP Development for Statewide Construction Program, Pennsylvania



U.S. Army Corps of Engineers, Baltimore District Aberdeen Proving Ground, Maryland

Part 4 – Management and Staffing Capabilities

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. This 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 large and 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 or the Office of the Adjutant General, DEF.

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. The following provides a brief discussion of each team member's experience base relevant to this project.

As Principal-In-Charge, **Russell Hall, PE, PS,** will ensure that all required resources including staff and equipment are available to the project manager to execute the project successfully. Mr. Hall has over 21 years of experience in transportation engineering working in both the government and private sectors. Mr. Hall has been responsible for the design and management of multiple transportation projects of varying size and complexity. His experience, understanding of project delivery and dedication to client satisfaction will guide this project.

Ron Kretz, RA, AIA will serve as Project Manager for this project. Mr. Kretz has over 20 years experience as a Project Manager, designer and Principal. Mr. Kretz's project experience includes various building types for military, education, institutional, commercial, health care, aviation, transit, and housing clients in public and private sector facilities.

Ron L. Bolen, AIA, with over 35 years of diverse experience, will serve as the QA/QC Architectural Manager for this project. Mr. Bolen's project design experience includes master planning, educational, parks, recreation, institutional, commercial, housing, health care, long-term care, and religious facilities. He is experienced with the submittal process for State Agencies, including WV SBA, State Board of Education and State Fire Marshal's office. Some of Mr. Bolen's directly related notable projects are as follows:

- Charleston Armory HVAC and Architectural Improvements, WVARNG C&FMO

- Camp Atterbury, Indiana Miscellaneous Building and Site Improvements
- Glen Jean Armory Design, Fayette County, West Virginia

Ralph Deffenbaugh, PE, LEED AP will serve as QA/QC Engineering Manager. Mr. Deffenbaugh is Director of Facilities Engineering, and provides leadership for project quality and interdisciplinary coordination. His experience includes Project Manager, Lead Structural Engineer for various types of facilities including tactical equipment maintenance facilities, vehicle maintenance facilities, barracks and military facilities.

Ronald Schirato, PE, LEED AP is a civil engineer with a broad range of experience in environmental permitting and engineering for site development on military, commercial, 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. Mr. Schirato's military experience also includes design of military and privately owned vehicle parking and implementation of DoD AT/FP Measures.

Patrick W. Fogarty, PE, PS, is the Civil Services Group Manager. Mr. Fogarty has over 22 years of experience with civil engineering projects of various size and levels of complexity. Mr. Fogarty will serve for civil engineering, environmental permitting and engineering of the site.. Some of his notable projects that are directly related to the current proposed project are as follows:

- Camp Dawson Improvements, State Armory Board for West Virginia
  - Training Set Fire Observation Facility
  - Ammo Supply Point
  - Fuel Supply Point
  - Vehicle Storage Area Renovation
- 130th Airlift Wing, West Virginia Air National Guard
  Aircraft Parking Apron Expansion

John Dziubek, PE, will serve as Geo Technical engineering for this project. He has managed projects for U.S. Army Corps of Engineers, U.S. Navy and State Department of Transportation.

R. Todd Schoolcraft, PLA, ASLA, will provide landscape architectural support. Mr. Schoolcraft has over 18 years of experience in military facilities planning and design. He will be responsible for coordinating the surveying and data collection as well as the preparation of all site-civil related plans and documents. His experience includes numerous military installations, armories, and armed forces readiness center projects. Some of his notable projects that are directly related to the current proposed project are as follows:

- A/E Services for the Office of the Adjutant General, WVARNG DEF

- Alloy Armory Berm Repair, WVARNG DEF
- Parking Lot Expansion and ADA Accessibility Upgrade, FWAATS
- Robert E. Rooney Marshalling Yard & Rinse Facility, Port Ash Shuaybah, Kuwait
- Building 5 Command Group Renovations, Zone II, Camp Arifjan, Kuwait
- Port Shuaybah Pier Assessment, Port Ash Shuaybah, Kuwait
- APOD Consolidation Project, Kuwait City International Airport, Kuwait
- 130th Tactical Airlift Group Project 2000, WVANG

Duncan Penney, RA, LEED AP will serve as Project Architect. 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. Mr. Penney is also a U.S. Green Building Council, LEED® accredited professional, with recent experience on over a dozen Pennsylvania Army National Guard Readiness Centers, statewide, for the Stryker Brigade Combat Teams, and Silver LEED®-certified U.S. Army Reserve Center projects for the Louisville District, U.S. Army Corps of Engineers.

Alana Pulay, IIDA, LEED AP, has over 7 years experience in commercial interior design and the architecture industry. Ms. Pulay is a licensed interior designer and a LEED AP (Leadership in Energy and Environmental Design Accredited Professional). She has extensive knowledge and experience in designing and specifying finishes, fixtures, and furnishings for educational facilities.

Eric Spicker, PE will serve as structural engineer with experience in the design and construction of commercial, military, governmental, industrial, transit, educational, and residential projects. He is skilled in fast tracked projects where substructure and foundation packages are released early and separately to contractors to allow an early construction start. These projects include hangars, reserve centers, vehicle maintenance facilities, office buildings, storage and warehouse facilities, schools, and numerous residential structures.

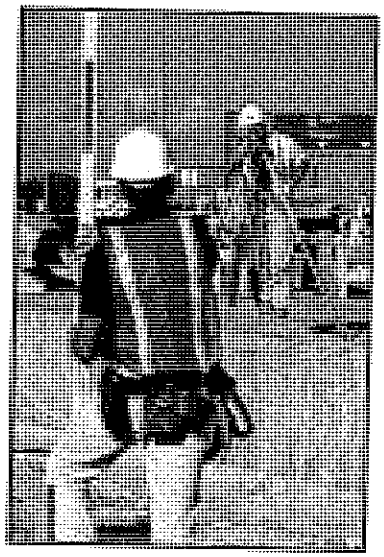
Dennis Myer, PE, LEED AP will serve as mechanical engineer and has extensive experience HVAC systems for military, educational, transit aviation, industrial and commercial applications. Mr. Myer has depth expertise in ASHRAE standards and Military Unified Facilities Criteria NAVFAC.

Owen Milligan, PE, will provide QA-QC Electrical support for the project. Mr. Milligan is an electrical engineer who is experienced in the study and design of electric distribution and control systems, emergency power for process plants and facilities, water/wastewater treatment plants, government and commercial projects, ASHRAE energy-efficient building design, coordination with vendor and contractors, and approval of vendor drawings.

Kevin Louk, RCDD/NTS/OSP LEED AP will serve as communications designer. Mr. Louk has lead electrical design projects, various military installations, and data centers.

Steven Henry, CPD will serve as plumbing designer. Mr. Henry has experience in plumbing, fire protection, field surveys, and code interpretation.

David Cameron, AVS will serve for construction phase services. Mr. Cameron services will include bid phase, and overall construction administration.



Baker Surveying

Baker Construction Monitoring

Part 5 – Project Outline

We have carefully reviewed your Request for Expressions of Interest and for the project requirements for the proposed Field Maintenance Shop at Buckhannon, WV. Based upon this intelligence, Baker has developed the following project outline:

Project Understanding

- Provide A/E design services for the development of construction plans and specifications for the Field Maintenance Shop in Buckhannon, WV.

- The facility will be a specially designed permanent new single story construction, approximately 32,955 square feet.
  - Brick & Concrete Block walls.
  - Concrete floors
  - Metal or Single Ply Membrane Roof.
  - Mechanical and Electrical Equipment.

- The exterior amenities supporting the facility will include:
  - Military vehicle parking.
  - Privately-Owned vehicle parking.
  - Fencing.
  - Sidewalks.
  - Flagpoles.
  - Exterior fire protection.
  - Outside lighting.
  - Access roads.
  - Detached facility signage.
  - Wash platforms.
  - Fuel Storage.
  - Dispensing systems.

- Physical security measures will be incorporate into the design, including maximum berms, heavy landscaping, and bollards to prevent access when standoff distance cannot be maintained. Physical security measures shall be incorporated into the design for maximum distance from roads, parking areas, and vehicle unloading areas.

- Cost effective energy conserving features will be incorporated in the design, including energy management control systems and high efficiency motors, lighting and HVAC systems.

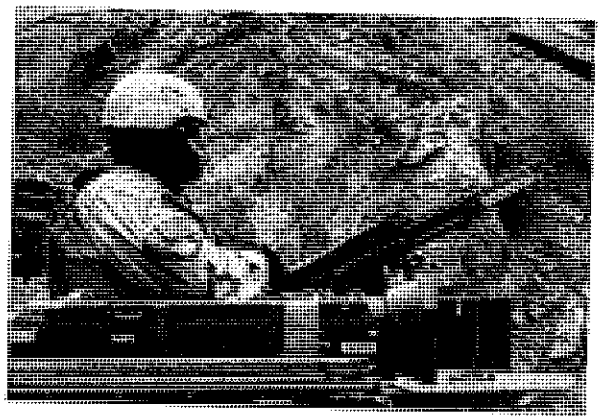
Technical Approach

Pre-Design Planning

During this phase Baker will collect all available data including utility maps, property plats, record drawings, etc. We would have discussions with the Owner's selected groups for goals, aspirations, budget constraints and timelines. We will work with the Office of the Adjutant General, DEF and the end users to develop the basic program and all other functional elements.

Preliminary Plans and Costs

Once all programming data has been acquired, we will work with the Office of the Adjutant General, DEF and the end users to develop conceptual layouts for the building program and all other functional elements.



Baker proposes to prepare preliminary site plans, elevations and schematic details with supporting documentation. This document will describe the individual elements required for the architectural, engineering, public safety, environmental and traffic issues associated with the proposed facility.

Preliminary Cost Estimates for Construction will be prepared and included in the submittal.

Design Development Documents

Once conceptual plans have been approved by the Office of the Adjutant General, DEF, Baker will prepare the Preliminary Engineering Estimate and Cut Sheets for various HVAC and architectural amenities for submission to the State Fire Marshall's Office. A 50% Design Submittal of the construction plans will also be prepared for review and approval.

Plan and Specification Preparation

Upon receipt of comments from the Design Development submittal, Baker will finalize the construction plans, technical specifications, bid documents, final construction estimates, and all necessary permit applications. Initial survey data, topography, and physical features are collected electronically and downloaded into our CADD system for use by the designers. Plan and/or Profile sheets are then developed. Detail Sheets are created from our Detail Library then modified to suit specific project applications. Specifications are created from our Master Spec Library and tailored to meet individual project requirements.

Baker generally makes use of E.J.C.D.C. and/or A.I.A. bidding and contracting documents, as normally dictated by the funding agencies. Blank copies of these forms are included in the Project

Manual and made available to all plan holders during the bidding process to minimize the risk of confusion or controversy and "level the playing field" for all prospective bidders.

Project Bid Evaluation

During this phase, if needed, Baker will prepare the Bid Advertisement, conduct the Pre-Bid Conference, prepare any necessary Addenda, perform the Bid Opening, create and distribute the Bid Tabulation, provide a recommendation of award of contract, and complete the Notice of Award for execution by the Office of the Adjutant General, DEF.

Bids will be scrutinized by the Project Manager with the Client. Likewise, detailed bid tabulations will be developed to allow the Client and funding agencies to work with the Project Manager toward the development of Construction Contract award.

Construction Administration and Inspection

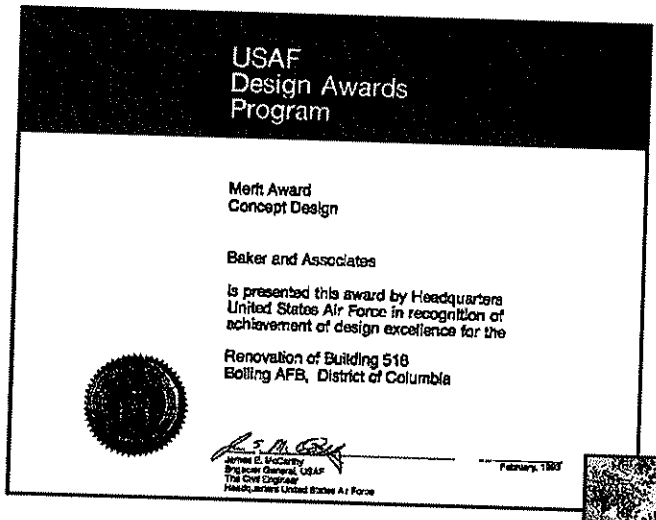
Initially, Baker will request insurance and scheduling information from the successful bidder and complete the Contract Documents and Notice to Proceed. Construction administration services may consist of shop drawing review, processing requests for information, monitoring construction progress, conducting construction meetings, processing payment applications, Davis-Bacon compliance interviews, and providing construction inspection.

Baker is well equipped to provide the administration and inspection of construction projects. Pre-Construction and regular job-site meetings, as well as shop drawing review, requests for information, pay requests and all other construction-related correspondence will be the responsibility of the Project Manager. Resident inspection services will be conducted by Baker technicians or staff engineers trained in construction practices and certified, as required, for the particular type of installation (i.e. concrete placement, compaction, asphalt, trenching, etc.). Constant communication between field and office is essential for a successful project.

Project Closeout

Baker will develop the final punch list for incomplete work. Once these items have been completed, we will coordinate a final walk through inspection with representatives of the Owner, Contractor, and Baker to ensure that the facility and project site are complete and in a clean condition prior to releasing the Contractor and ensure the occupants are completely familiar with the systems operation. Baker will collect and deliver to the Office of the Adjutant General, DEF any Operation and Maintenance information, as well as all final documentation for the project.

The one-year warranty period will commence at that time. The Office of the Adjutant General, DEF will be urged to contact the Baker Project Manager during that time should any problems arise at the facility. We will promptly respond with a confirmation site visit and follow-up with the Contractor to ensure compliance.



USAF
Design Awards
Program

Merit Award
Concept Design

Baker and Associates

is presented this award by Headquarters
United States Air Force in recognition of
achievement of design excellence for the

Renovation of Building 518
Bolling AFB, District of Columbia

James E. McCarthy
Engineer General, USAF
The Civil Engineer
Headquarters United States Air Force

February, 1993

Air Force Design Award for the Renovation of Building 518, Bolling AFB, Washington, DC, along with rendering of proposed improvements.

Part 6 – Related Prior Experience

> ***"...the Office of the Adjutant General, DEF will have access to the human resources, expertise, and technology of all Baker locations should the need arise."***

The following Project Descriptions illustrate Baker's related prior experience. We have included examples of building facilities used for emergency services, maintenance, training, parking and support functions for both military and civilian clients at various locations across the nation. Many of these projects are LEED® and/or SPiRiT (Sustainable Project Rating Tool) rated. We believe these projects show the depth of our expertise in all aspects of engineering and architecture. While we propose to conduct activities from our West Virginia operation, these diverse project locations are meant to emphasis our ***One Baker*** philosophy, which simply means that the Office of the Adjutant General, DEF will have access to the human resources, expertise, and technology of all Baker locations as particular needs arise.

Part 7 – References

Each of the Project Profiles found in Part 6 lists Baker's client and contact information for your use as a reference. Additionally, we offer the following diverse list of past or current clients and contact information:

- **Central West Virginia Regional Airport Authority - Yeager Airport**
  100 Airport Road, Suite 175
  Charleston, WV 25311-1080
  Mr. Richard A. Atkinson, III, Airport Director
  (304) 344-8033

- **West Virginia Division of Transportation – Division of Highways**
  1900 Kanawha Boulevard East
  Building 5, Room A-317
  Charleston, WV 25305
  Mr. James E. Sothen, P.E., Deputy State Highway Engineer
  (304) 558-0191

- **WV Division of Homeland Security & Emergency Mgmnt., E-911 Mapping**
  1900 Kanawha Boulevard East
  Building 1, Room EB-80
  Charleston, WV 25305
  Mr. Jimmy Joe Gianato, Director of Homeland Security
  (304) 558-5380

- **WV Statewide Addressing and Mapping Board**
  1124 Smith Street, Room LM-10
  Greenbrooke Building
  Charleston, WV 25301
  Ms. Leigh Cielensky, Executive Assistant
  (304) 558-4218

- **U.S. Army Corps of Engineers – Huntington District**
  502 Eighth Street
  Huntington, WV 25701
  Mr. David Meadows, P.E.
  (304) 399-5243

- **Federal Aviation Administration - Beckley Airports District Office**
  176 Airport Circle, Room 101
  Beaver, WV 25813-9350
  Mr. Matthew Di Giulian, P.E.
  (304) 252-6216

- **West Virginia Army National Guard – Division of Engineering and Facilities**
  1707 Coonskin Drive
  Charleston, WV 25311-1099
  Major Michael J. Beckner, Facilities Management Officer
  (304) 561-6333

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: DEFK10020

PAGE: 1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
BUYER 32
304-558-2544

VENDOR
RFQ COPY
TYPE NAME/ADDRESS HERE

SHIP TO
DIV ENGINEERING & FACILITIES
ARMORY BOARD SECTION

1707 COONSKIN DRIVE
CHARLESTON, WV
25311-1099 304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
05/21/2010				

BID OPENING DATE: 06/17/2010 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
01	1	JB		906-29		

BUCKHANNON FIELD MAINTENANCE SHOP

THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA ARMY NATIONAL GUARD, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ARCHITECTURAL ENGINEERING SERVICES FOR THE BUCKHANNON FIELD MAINTENANCE SHOP IN UPSHUR CO., WEST VIRGINIA, PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS.

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.

****** THIS IS THE END OF RFQ DEFK10020 ****** TOTAL:

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: Russell E. Hall TELEPHONE: DATE: 6/17/10

TITLE: FEIN: ADDRESS CHANGES TO BE NOTED ABOVE

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

GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.

2. The State may accept or reject in part, or in whole, any bid.

3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required $125 fee.

4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.

5. Payment may only be made after the delivery and acceptance of goods or services.

6. Interest may be paid for late payment in accordance with the ***West Virginia Code***.

7. Vendor preference will be granted upon written request in accordance with the ***West Virginia Code***.

8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.

9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.

10. The laws of the State of West Virginia and the ***Legislative Rules*** of the Purchasing Division shall govern the purchasing process.

11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.

12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.

13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at **www.state.wv.us/admin/purchase/vrc/hipaa.htm** and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.

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

16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.

2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as EQUAL to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.

3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.

4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130

5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).

Revised July 28, 2009

EXPRESSION OF INTEREST

Buckhannon Field Maintenance Shop
Requisition # DEFK10020

Part 1 GENERAL INFORMATION

1.1 **Purpose:**
The Acquisition and Contract Administration Section of the Purchasing Division "State" is soliciting Expression(s) of Interest (EOI) for the West Virginia Army National Guard, Construction and Facilities Management Office (CFMO), from qualified firms to provide architectural/engineering services as defined in section two (2) and three (3).

1.2 **Project:**
The requirement for this EOI is for professional engineering and design services for the West Virginia Army National Guard Readiness Center located in the vicinity of Parkersburg, West Virginia. The proposed facilities will consist of approximately 59, 835 gross square feet of administrative/office space, drill floor spaces, and heated / unheated storage.

1.3 **Format: N/A**

1.4 **Inquiries:**
Additional information inquiries regarding this EOI must be submitted in writing to the State Buyer with the exception of questions regarding proposal submission, which may be oral. The deadline for written inquiries is identified in the Schedule of Events, Section 1.16. All inquiries of specification clarification must be addressed to:

Mr Chuck Bowman
Purchasing Division
P.O. Box 50130
Charleston, WV 25305-0130
Fax: (304) 558-4115

The firm, or anyone on the firm's behalf, is not permitted to make any contact whatsoever with any member of the evaluation committee. Violation may result in rejection of the EOI. The State Buyer named above is the sole contact for any and all inquiries after this EOI has been released.

1.5 **Vendor Registration:**
Firms participating in this process should complete and file a ***Vendor Registration and Disclosure Statement*** (Form WV-1) and remit the registration fee. Firm is not required to be a registered vendor in order to submit an EOI, but the **successful**

firm must register and pay the fee prior to the issuance of an actual contract.

1.6 **Oral Statements and Commitments:**
Firm must clearly understand that any verbal representations made or assumed to be made during any oral discussions held between firm's representatives and any State personnel are **not** binding. Only the information issued in writing and added to the Expression of Interest specifications file by an official written addendum is binding.

1.7 **Economy of Preparation:**
EOI's should be prepared simply and economically, providing a straightforward, concise description of firm's abilities to satisfy the requirements of the EOI. Emphasis should be placed on completeness and clarity of content.

1.8 **Labeling of the Sections:** The response sections should be labeled for ease of evaluation.

1.9 **Submission:**
1.9.1 State law requires that the original expression shall be submitted to the Purchasing Division. All copies to the Purchasing Division must be submitted **prior** to the date and time stipulated as the opening date. All expressions will be date and time stamped on the Purchasing Division official time clock to verify time and date of receipt.

1.9.2 Firms mailing expressions should allow sufficient time for mail delivery to ensure timely arrival. The Purchasing Division **CANNOT** waive or excuse late receipt of an expression which is delayed and late for any reason according West Virginia State Code §5A-3-11. Any EOI received after the bid opening time and date will be immediately disqualified in accordance with State law and the Legislative Rule 148-CSR-1.

Submit:

Two original (3-Ring Binder preferred) plus (1) copy on compact disk of single PDF file to:

Purchasing Division
2019 Washington Street, East
P.O. Box 50130
Charleston, WV 25305-0130

The outside of the envelope or package(s) should be clearly marked:

Buyer:	32
Req #:	DEFK10020
Opening Date:	06/17/2010
Opening Time:	1:30 pm

1.10 **Rejection of Expressions:**
The State shall select the best value solution according to §5G-1-3 of the West Virginia State Code. However, the State reserves the right to accept or reject any or all expressions and to reserve the right to withdraw this Expression of Interest at any time and for any reason. Submission of, or receipt by the State of Expressions confers no rights upon the firm nor obligates the State in any manner.

1.11 **Incurring Costs:**
The State and any of its employees or officers shall not be held liable for any expenses incurred by any firm responding to this EOI for expenses to prepare, deliver, or to attend the short-list interviews.

1.12 **Addenda:**
If it becomes necessary to revise any part of this EOI, an official written addendum will be issued by the State to all potential firms of record.

1.13 **Independent Price Determination:**
A contract will not be considered for award if the negotiated price was not arrived at independently without collusion, consultation, communication, or agreement as to any matter relating to prices with any competitor.

1.14 **Price Quotations:** No "price" or "fee" quotation is requested or permitted in the response.

1.15 **Public Record:**

1.15.1 *Submissions are Public Record.*
All documents submitted to the State Purchasing Division related to purchase orders/contracts are considered public records. All EOI's submitted by firms shall become public information and are available for inspection during normal official business hours in the Purchasing Division Records and Distribution center after the expressions have been opened.

1.15.2 *Written Release of Information.*
All public information may be released with or without a Freedom of Information request, however, only a written request will be acted upon with duplication fees paid in advance. Duplication fees shall apply to all requests for copies of any

document. Currently the fees are $0.50/page, or a minimum of $10.00 per request, which ever is greater.

1.15.3 *Risk of Disclosure.*
The only exemptions to disclosure of information are listed in West Virginia Code §29B-1-4. Primarily, only trade secrets as submitted by a firm are the only exemption to public disclosure. The submission of any information to the State by a firm puts the risk of disclosure on the firm. The submission of any information to the State by a vendor puts the risk of disclosure on the vendor. The State does not guarantee non-disclosure of any information to the public.

1.16 **Schedule of Events:**

Release of the EOI.....05/20/2010
EOI opening date.....06/17/2010

1.17 **Mandatory Prebid Conference: N/A**

1.18 **Bond Requirements: N/A**

1.19 **Purchasing Affidavit:**
West Virginia State Code §5A-3-10a (3) (d) requires that all firms submit an Affidavit regarding any debt owed to the State and licensing and confidentiality certifications. The Affidavit **must** be signed and submitted prior to award. It is preferred that the Affidavit be submitted with the EOI.

PART 2 OPERATING ENVIRONMENT

2.1 **Location:**

2.11 Agency is located at:

The WV Army National Guard
Joint Forces Headquarters
Construction and Facilities Management Office
1703 Coonskin Drive
Charleston, West Virginia 25311

2.12 Project is located at:

Vicinity of Buckhannon, Lewis County, WV

2.2 **Background:** The West Virginia Army National Guard desires to construct a National Guard Field Maintenance Shop in the vicinity of Buckhannon, WV and therefore requires design services.

PART 3 PROCUREMENT SPECIFICATIONS

3.1 **General Requirements:** Design and engineering services for design of a National Guard Field Maintenance Shop.

3.2 **Project Description:**

A specially designed Field Maintenance Shop of permanent masonry type construction, brick and concrete block units with concrete floors, and a metal or single membrane roof. A single story structure with mechanical and electrical equipment. Outside supporting facilities include military and privately-owned vehicle parking, fencing, sidewalks, exterior fire protection, outside lighting, access roads, detached facility sign, wash platforms, loading ramp, fuel storage and dispensing systems and flagpoles. Physical security measures will be incorporated into design including maximum feasible standoff distance from roads, parking areas, and vehicle unloading areas, berms, heavy landscaping, and bollards to prevent access when standoff distance cannot be maintained. Cost effective energy conserving features will be incorporated into design, including energy management control systems and high efficiency motors, lighting and HVAC systems.

3.3 **Special Terms and Conditions:**

3.3.1 *Bid and Performance Bonds*:

3.3.2 *Insurance Requirements*: $1,000,000 General Liability per Occurrence
$2,000,000 Aggregate
$1,000,000 Automobile Liability
$1,000,000 Professional Liability

Workers Compensation Certificate upon award
West Virginia Statutory requirements including
West Virginia Code §23-4-2 (Mandolidis)

3.4 **General Terms and Conditions:**
By signing and submitting the EOI, the successful firm agrees to be bound by all the terms contained in Section Three (3) of this EOI.

3.4.1 *Conflict of Interest*:
Firm affirms that it, its officers or members or employees presently have no interest and shall not acquire any interest, direct or indirect which would conflict or compromise in any manner or degree with the performance or its services hereunder. The firm further covenants that in the performance of the contract, the firm shall periodically inquire of its officers, members and employees concerning such interests. Any such interests discovered shall be promptly presented in detail to the Agency.

3.4.2 *Prohibition Against Gratuities*:
Firm warrants that it has not employed any company or person other than a bona fide employee working solely for the firm or a company regularly employed as its marketing agent to solicit or secure the contract and that it has not paid or agreed to pay any company or person any fee, commission, percentage, brokerage fee, gifts or any other consideration contingent upon or resulting from the award of the contract. For breach or violation of this warranty, the State shall have the right to annul this contract without liability at its discretion, and/or to pursue any other remedies available under this contract or by law.

3.4.3 *Certifications Related to Lobbying*:
Firm certifies that no federal appropriated funds have been paid or will be paid, by or on behalf of the company or an employee thereof, to any person for purposes of influencing or attempting to influence an officer or employee of any Federal entity, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment or modification of any Federal contract, grant, loan, or cooperative agreement.

If any funds other than federally appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee or any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the firm shall complete and submit a disclosure form to report the lobbying.

Firm agrees that this language of certification shall be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub recipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this contract was made and entered into.

3.4.4 *Vendor Relationship*:
The relationship of the firm to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by the parties to this contract. The firm as an independent contractor is solely liable for the acts and omissions of its employees and agents.

Firm shall be responsible for selecting, supervising and compensating all individuals employed pursuant to the terms of this EOI and resulting contract. Neither the firm nor any employees or contractors of the firm shall be deemed to be employees of the State for any purposes whatsoever.

The Firm shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension or other deferred compensation plans, including but not limited to Workers' Compensation and Social Security obligations, and licensing fees, etc. and the filing of all necessary documents, forms and returns pertinent to all of the foregoing.

The Firm shall hold harmless the State, and shall provide the State and Agency with a defense against all claims including but not limited to the foregoing payments, withholdings, contributions, taxes, social security taxes and employer income tax returns.

The firm shall not assign, convey, transfer or delegate any of its responsibilities and obligations under this contract to any person, corporation, partnership, association or entity without expressed written consent of the Agency.

3.4.5 *Indemnification:*
The firm agrees to indemnify, defend and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person or firm performing or supplying services, materials or supplies in connection with the performance of the contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the firm, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use or disposition of any data used under the contract in a manner not authorized by the contract, or by Federal or State statutes or regulations; (3) Any failure of the firm, its officers, employees or subcontractors

to observe State and Federal laws, including but not limited to labor and wage laws.

3.4.6 *Contract Provisions*:
After the most qualified firm is identified, and fee negotiations are concluded, a formal contract document will be executed between the State and the firm. The order of precedence is the contract, the EOI and the firm's response to the EOI.

3.4.7 *Governing Law*:
This contract shall be governed by the laws of the State of West Virginia. The firm further agrees to comply with the Civil Rights Act of 1964 and all other applicable laws (Federal, State or Local Government) regulations.

3.4.8 *Compliance with Laws and Regulations*:
The firm shall procure all necessary permits and licenses to comply with all applicable laws, Federal, State or municipal, along with all regulations, and ordinances of any regulating body.

The firm shall pay any applicable sales, use, or personal property taxes arising out of this contract and the transactions contemplated thereby. Any other taxes levied upon this contract, the transaction, or the equipment, or services delivered pursuant here to shall be borne by the contractor. It is clearly understood that the State of West Virginia is exempt from any taxes regarding performance of the scope of work of this contract.

3.4.9 *Subcontracts/Joint Ventures*:
The State will consider the firm to be the sole point of contact with regard to all contractual matters. The firm may, with the prior written consent of the State, enter into written subcontracts for performance of work under this contract; however, the firm is totally responsible for payment of all subcontractors.

3.4.10 *Term of Contract*:
This contract will be effective (date set upon award) and shall extend until the scope of work is complete or for one (1) consecutive twelve (12) month period. The contact may be renewed upon mutual consent for two (2) consecutive years one (1) year periods or until such reasonable time as may be necessary to obtain a new contract or to complete work.

3.4.11 *Non-Appropriation of Funds*:
If the Agency is not allotted funds in any succeeding fiscal year for the continued use of the service covered by this contract by the West Virginia Legislature, the Agency may terminate the contract at the end of the affected current fiscal period without further charge or penalty. The Agency shall give the firm written notice of such non-allocation of funds as soon as possible after the Agency receives notice.

No penalty shall accrue to the Agency in the event this provision is exercised.

3.4.12 *Contract Termination*:
The State may terminate any contract resulting from this EOI immediately at any time the firm fails to carry out its responsibilities or to make substantial progress under the terms of this EOI and resulting contract. The State shall provide the firm with advance notice of performance conditions, which are endangering the contract's continuation. If after such notice the firm fails to remedy the conditions contained in the notice, within the time contained in the notice, the State shall issue the firm an order to cease and desist all work immediately.

The State shall be obligated only for services rendered and accepted prior to the date of the notice of termination. The contract may also be terminated upon mutual agreement of the parties with thirty (30) days prior notice.

3.4.13 *Changes*:
If changes to the original contract become necessary, a formal contract change order will be required. Prior to any work being performed, the change must be negotiated and approved by the State, the Agency and the firm. An approved contract change order is defined as one approved by the Purchasing Division and approved as to form by the West Virginia Attorney General's Office prior to the effective date of such amendment. **NO CHANGE SHALL BE IMPLEMENTED BY THE FIRM UNTIL THE FIRM RECEIVES AN APPROVED WRITTEN CHANGE ORDER.**

3.4.14 *Invoices, Progress Payments, & Retainage*:
The Firm shall submit invoices, in arrears, to the Agency at the address on the face of the purchase order labeled "Invoice To" pursuant to the terms of the contract. Progress payments may be made at the option of the Agency based on percentage of work completed if so defined in the final contract. Any provision for progress payments must also include language for a minimum 10% retainage until the final deliverable is accepted.

If progress payments are permitted, firm is required to identify points in the work plan at which compensation would be appropriate. Progress reports must be submitted to Agency with the invoice detailing progress completed or any deliverables identified. Payment will be made only upon approval of acceptable progress or deliverables as documented in the firm's report. Invoices may not be submitted more than once monthly and State law forbids payment of invoices prior to receipt of services.

3.4.15 *Liquidated Damages*: NA

3.4.16 *Record Retention (Access & Confidentiality)*:

Firm shall comply with all applicable Federal and State of West Virginia rules and regulations, and requirements governing the maintenance of documentation to verify any cost of services or commodities rendered under this contract by the firm. The firm shall maintain such records a minimum of five (5) years and make available all records to Agency personnel at firm's location during normal business hours upon written request by Agency within 10 days after receipt of the request.

Firm shall have access to private and confidential data maintained by Agency to the extent required for firm to carry out the duties and responsibilities defined in this contract. Firm agrees to maintain confidentiality and security of the data made available and shall indemnify and hold harmless the State and Agency against any and all claims brought by any party attributed to actions of breech of confidentiality by the firm, subcontractors, or individuals permitted access by the firm.

PART 4 EVALUATION & AWARD

4.1 Evaluation and Award Process:

a) Expressions of Interest will be evaluated and awarded in accordance with **§5G-1-3 "Contracts for architectural and engineering services; selection process where total project costs are estimated to cost two hundred fifty thousand dollars or more."**

"In the procurement of architectural and engineering services for projects estimated to cost two hundred and fifty thousand dollars or more the director of purchasing shall encourage such firms engaged in the lawful practice of the profession to submit an expression of interest, which shall include a statement of qualifications, and performance data and may include anticipated concepts and proposed methods of approach to the project. All such jobs shall be announced by public notice published as a Class II legal advertisement in compliance with the provisions of article three [§59-3-1et seq.] A committee comprised of three to five representatives of the agency initiating the request shall evaluate the statements of qualifications and performance data and other material submitted by the interested firms and select three firms which in their opinion are the best qualified to perform the desired service. Interviews with each firm selected shall be conducted and the committee shall conduct discussions regarding anticipated concepts and the proposed methods of approach to the assignment. The committee shall then rank in order of preference no less than three professional firms deemed to be the most highly qualified to provide the services required, and shall commence scope of service and price negotiations with the highest qualified professional firm for architectural or engineering services or both. Should the agency be unable to negotiate a satisfactory contract with the

professional firm considered to be the most qualified, at a fee determined to be fair and reasonable, price negotiations with the firm of second choice shall commence. Failing accord with the second most qualified professional firm, the committee shall undertake price negotiations with the third most qualified professional firm. Should the agency be unable to negotiate a satisfactory contract with any of the selected professional firms, it shall select additional professional firms in order of their competence and qualifications and it shall continue negotiations in accordance with this section until an agreement is reached."

b) The committee shall rank, in order of preference, each of the selected Firms. Each of the Firms shall begin with a score of one hundred.

The criteria and assigned point values are as follows:

1. Qualifications of personnel	20
2. Experience with similar projects.	45
3. Oral Interview	35
Total	100

Interviews will be conducted with the Firms selected as most qualified by the C&FMO Selection Committee.
The format for the interviews will be a 15-30 minute presentation consisting, at a minimum, of the following:

- Corporate / Personnel Experience as it relates to the Project
- Uniquely Qualifying Examples or Qualifying Information
- Key Personnel Available for the Proposed Work
- Proposed Project Management Plan
- Proposed Subcontractors
- Product Quality Control
- Project Cost Control

RFQ No. DEFK - 10020

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 owned is an amount greater than one thousand dollars in the aggregate

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: _____

Authorized Signature: _____ Date: 6/17/10

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 17th day of December, 2010.

My Commission expires 4/14, 2013

AFFIX SEAL HERE

NOTORY PUBLIC _____

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
STEPHANIE A. HENSLEY
c/o MICHAEL BAKER JR., INC.
5088 WEST WASHINGTON ST.
CHARLESTON, WV 25313
My commission expires April 14, 2013

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	PAGE
DEFK10020	1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
BUYER 32
304-558-2544

VENDOR
RFQ COPY
TYPE NAME/ADDRESS HERE

SHIP TO
DIV ENGINEERING & FACILITIES
ARMORY BOARD SECTION

1707 COONSKIN DRIVE
CHARLESTON, WV
25311-1099 304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
05/25/2010				

OPENING DATE: 06/17/2010 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
	********** ADDENDUM NO. 1 **********					
	ADDENDUM ISSUED FOR THE BUCKHANNON FIELD MAINTENANCE SHOP DESIGN CONTRACT TO CORRECT THE PROJECT LOCATION AS STATED IN SECTION 1.2 OF THE EXPRESSION OF INTEREST PROJECT IS LOCATED IN BUCKHANNON, WV, WITH AN ESTIMATED 32,955 SQUARE FOOTAGE.					
	BID OPENING DATE AND TIME REMAIN 06/17/2010 AT 1:30 PM.					
	********** NO OTHER CHANGES **********					
01	1	JB		906-29		
	BUCKHANNON FIELD MAINTENANCE SHOP					
	****** THIS IS THE END OF RFQ DEFK10020 ****** TOTAL:					

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE Russell E. Hall TELEPHONE 304-769-0821 DATE 6/17/10

Assistant V.P. FEIN 251228638 ADDRESS CHANGES TO BE NOTED ABOVE

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

GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.

2. The State may accept or reject in part, or in whole, any bid.

3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required $125 fee.

4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.

5. Payment may only be made after the delivery and acceptance of goods or services.

6. Interest may be paid for late payment in accordance with the ***West Virginia Code***.

7. Vendor preference will be granted upon written request in accordance with the ***West Virginia Code***.

8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.

9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.

10. The laws of the State of West Virginia and the ***Legislative Rules*** of the Purchasing Division shall govern the purchasing process.

11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.

12. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.

13. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at **www.state.wv.us/admin/purchase/vrc/hipaa.htm** and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

14. CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.

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

16. ANTITRUST: In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.

2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.

3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.

4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130

5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).

A/E IDIQ Contract for Design of Army Reserve & Military Projects

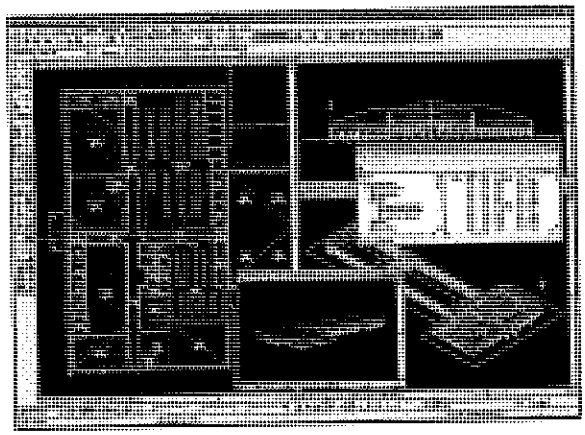
Nationwide

Baker is providing a variety of planning and design services to the USACE, Louisville District under a $20 million IDIQ contract for the design of Army Reserve and various Military projects. Task orders involve: master plan updates; installation design guides; capital investment strategy; A/E design of Reserve Centers, warehouses, administrative, training, special operations, and vehicle maintenance facilities; site engineering and stormwater management, erosion and sedimentation control; and preparation of design/build RFP documents, as well as traditional design/bid/build delivery. **Design documents have been delivered or are currently in process for 18 Reserve Training Centers, estimated at over $325M in construction,** including design/build RFP documents and full design and construction documents.

Both U.S. Army Reserve (USARC) and Armed Forces Reserve Centers (AFRC) are being designed under this second consecutive IDIQ contract. Tenants of AFRC projects include National Guard and Army Reserve units, as well as other military branches.

Task orders under our current contract include the following:

- **Combined Regional Maintenance Facility, Phases I and II, Fort Dix, NJ.** Baker provided design services for a Combined Regional Maintenance Facility at Fort Dix. The 50,400-square-foot facility is an integrated, consolidated, regional, combined vehicle maintenance shop and mobilization and training equipment site that provides for the storage, inspection, maintenance, and repair of combat and tactical vehicles and equipment associated with the regional deployment of Army National Guard, Army, Marine, and Navy Reserve units. In addition to providing black and white and colored elevation renditions, Phase II consisted of final design utilizing Building Information Modeling (BIM) software, and completes the project through



Client
U.S. Army Corps of Engineers,
Louisville District
Room 821
600 Dr. Martin Luther King, Jr. Place
P.O. Box 59
Louisville, KY 40202

Fred Grant
Chief, Reserve Support Branch
502-315-6842

Completion Date
Estimated: 2012

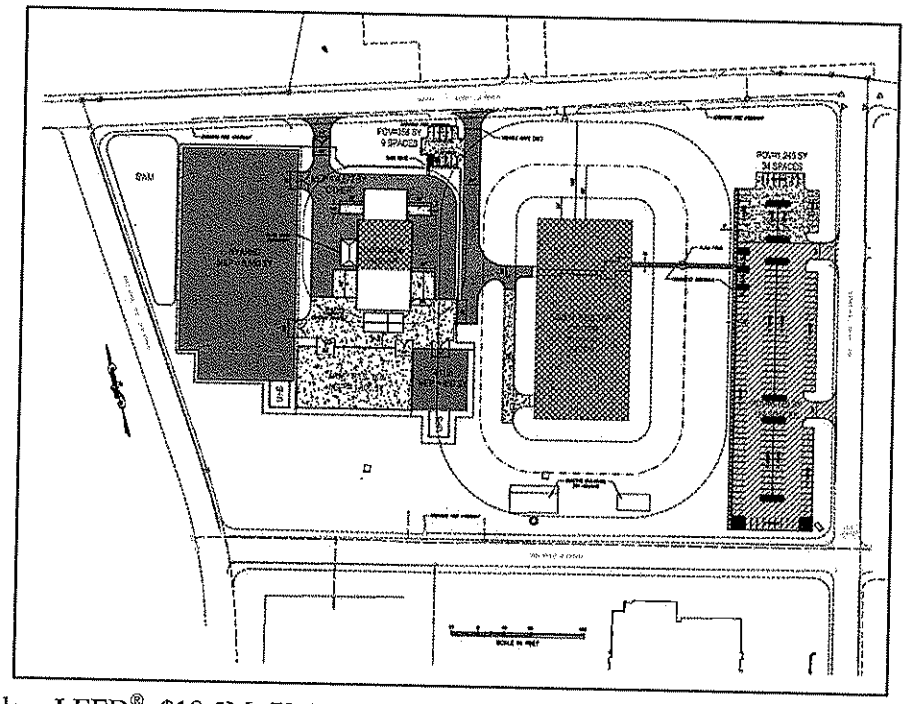
Project Costs
$16,967,331 (Fee)

Baker's Role
- Design Charrettes
- Design/Build RFP Documents
- Demolition Design
- Asbestos and Lead Paint Investigations
- Environmental Engineering
- Site/Civil Engineering
- Geotechnical Engineering
- Landscape Architecture
- Anti-Terrorism and Force Protection
- Planning
- Architecture
- Interior Space Planning
- Structural Engineering
- Mechanical Engineering
- Plumbing Engineering
- Fire Protection Engineering
- Electrical Engineering
- Sustainable Design
- MCACES Cost Estimating

the construction phase.

- **Design/Build RFP Documents were developed for the following projects.** The RFP development consisted of conducting a design charrette, providing a topographical survey and geotechnical investigation, performing a utility survey, developing conceptual site plans, floor plans, and building elevations, developing RFP specifications, preparing DD Form 1354 – Transfer of Real Property, providing a PACES construction cost estimate and engineering feasibility studies and value engineering.

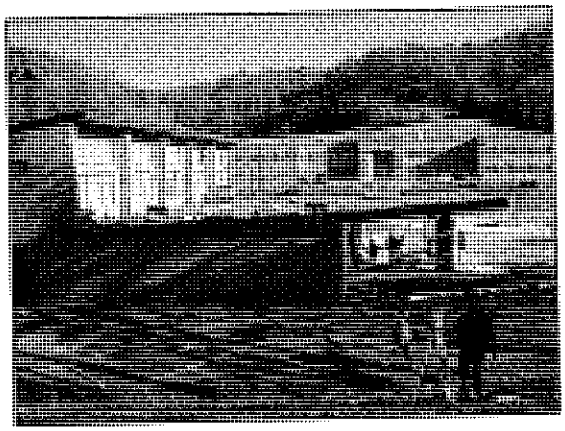
  - **Warehouse and Special Purpose Brigade Operations Buildings**; Fort Jackson, Columbia, SC; $3.5M; 13,090-SF
  - Revitalization of Diamond U.S. Army **Reserve Center**; New Orleans, LA; Gold SPiRiT; $14M; 78,500-SF
  - Armed Forces **Reserve Center**; Stewart Newburgh, NY; Silver LEED®; $20.1M; 102,550-SF
  - Armed Forces **Reserve Center**; Lewisburg, PA; Silver LEED®; $24M; 80,272-SF
  - Armed Forces **Reserve Center**; White River Junction, VT; Silver LEED®; $28M; 109,346-SF
  - Armed Forces **Reserve Center**; Willow Grove, PA; Silver LEED®; $32M; 95,200-SF
  - Armed Forces **Reserve Center**; Pease, NH; Silver LEED®; $6.9M; 21,443-SF
  - Armed Forces **Reserve Center**; Williamsport, PA; Silver LEED®; $18.5M; 79,106-SF
  - Armed Forces **Reserve Center**; Rutland, VT; Silver LEED®; $23M; 122,649-SF
  - Armed Forces **Reserve Center**; Bristol, PA; Silver LEED®; $25M, 106,300-SF
  - Armed Forces **Reserve Center**; Scranton, PA; Silver LEED®; $32M; 161,601-SF
  - **Equipment Concentration Site and Warehouse**; Lakehurst, NJ; Silver LEED®; $27M; 85,663-SF
  - Armed Forces **Reserve Center**; Fort A.P. Hill, VA; ; Silver LEED®; $11M; 41,760-SF



- **Full Design/Bid/Build Documents** were prepared for the following projects. Each project included an OMS/AMSA and Storage/Support.
  - Armed Forces **Reserve Center**, Newport, RI; Silver LEED®; $18.5M; 64,828-SF
  - Armed Forces **Reserve Center**, Brownsville, TX; Silver LEED®; $13M; 53,018-SF
  - Armed Forces **Reserve Center**, Chester, PA; Silver LEED®; $20M; 62,076-SF
  - Armed Forces **Reserve Center**, Roanoke, VA; Silver LEED®; $14.3M; 53,954-SF
  - U.S. Army **Reserve Center**, Fort Totten, NY; Rehab $10M, 39,433-SF
  - U.S. Army **Reserve Center**, Harrisburg, PA; Silver LEED®; $7.6M; 28,567-SF
  - U.S. Army **Reserve Center**, Bethlehem, PA; Silver LEED®; $15.5M;, 45,852-SF

WVARNG Charleston Armory HVAC & 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. 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 those 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

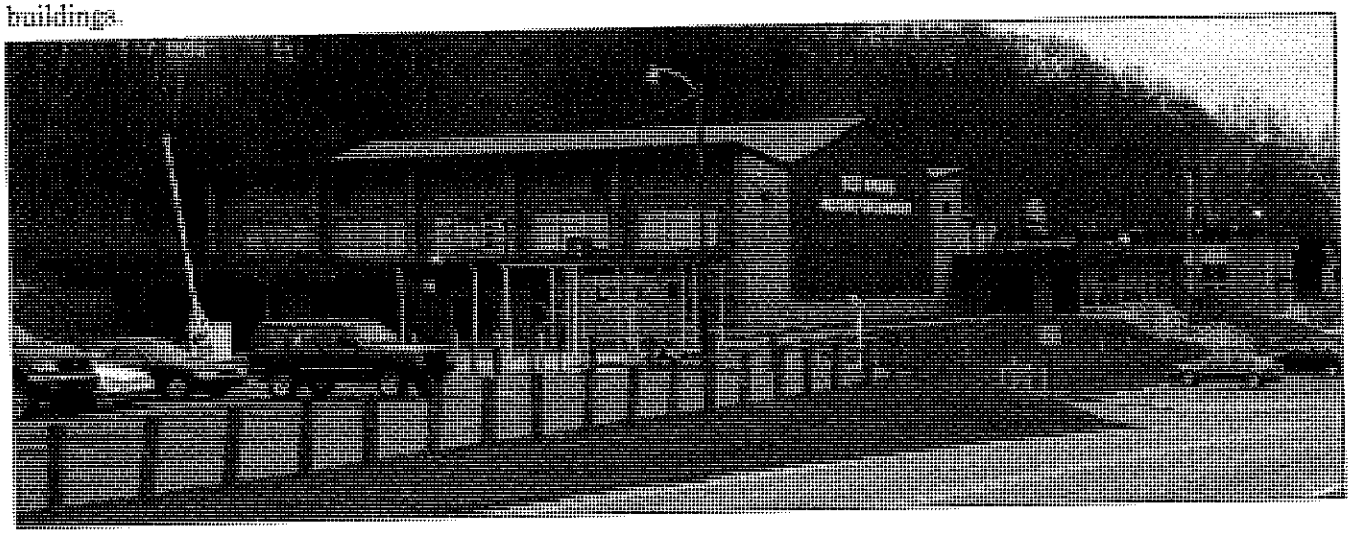
Major Michael J. Beckner
Armory Facilities Manager
304-561-6333

Completion Date
Estimated: Spring 2010

Project Costs
$2,990,000 (Estimated Construction)
$72,100 (Fee)

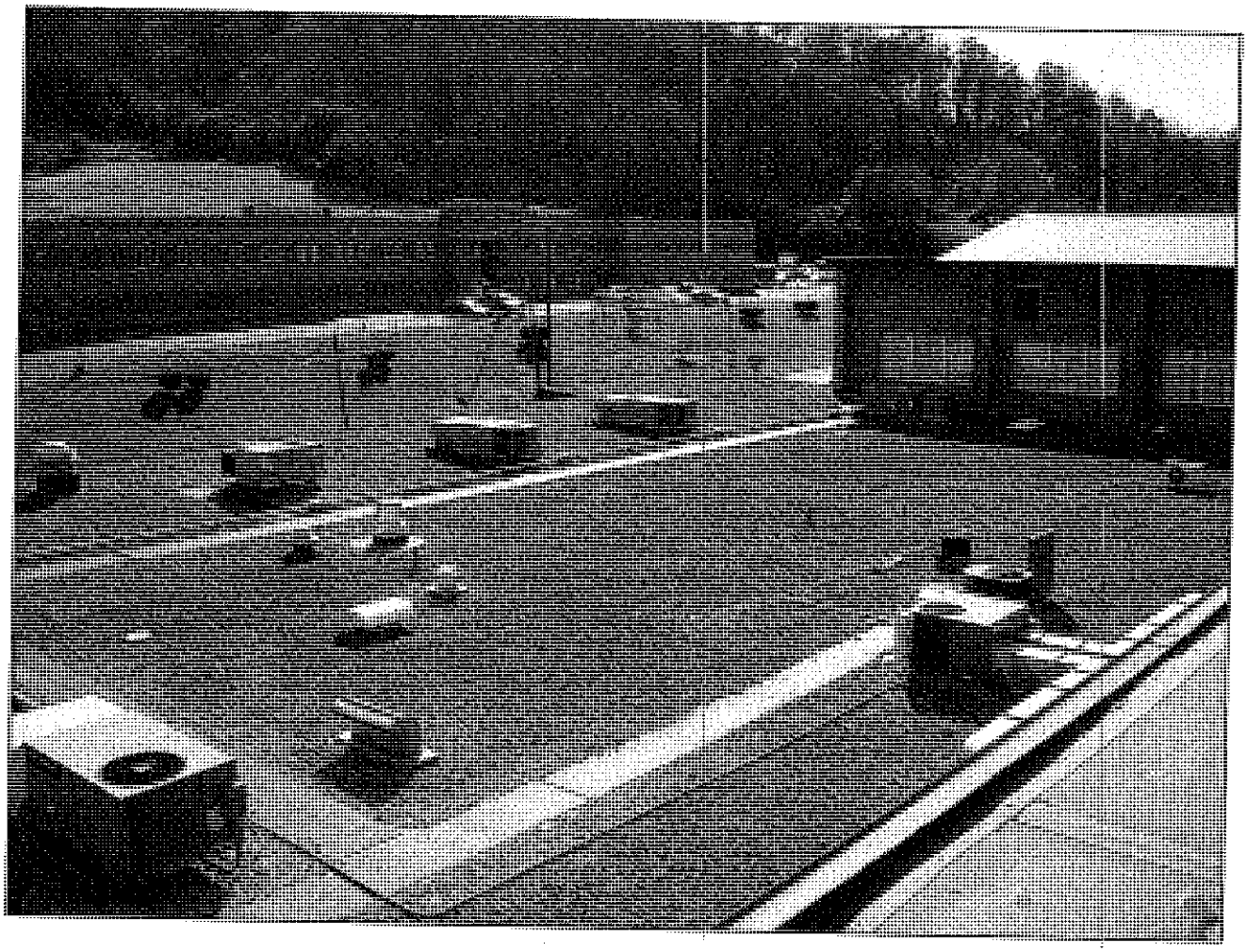
Baker's Role

- Planning
- Architecture
- Mechanical Engineering
- Civil Engineering
- CADD Drafting
- Bidding
- Construction Administration



Baker offered six potential solutions for the facility's HVAC issues in the Planning Study Report. During the review of the six solutions, Baker needed to determine the Owner's requirements and expectations as well as the level of disruption to the facilities that would be tolerated. These factors were considered in the final system selection. Preliminary discussions quickly reduced the six considered solutions to two systems: a four-pipe hot-water/chilled-water system and a loop pipe water source heat pump system. With fewer pipes and a lower installation cost, the loop pipe water source heat pump system was selected as the best solution.

The water source heat pump system is modular and duct work is much smaller than with other systems. Heat can be moved around the building so that the equipment would not energize during certain outside air conditions. By treating the facility as one, as opposed to three structures, there is a greater opportunity to share energy produced by office equipment and occupants located within the building during off peak hours.



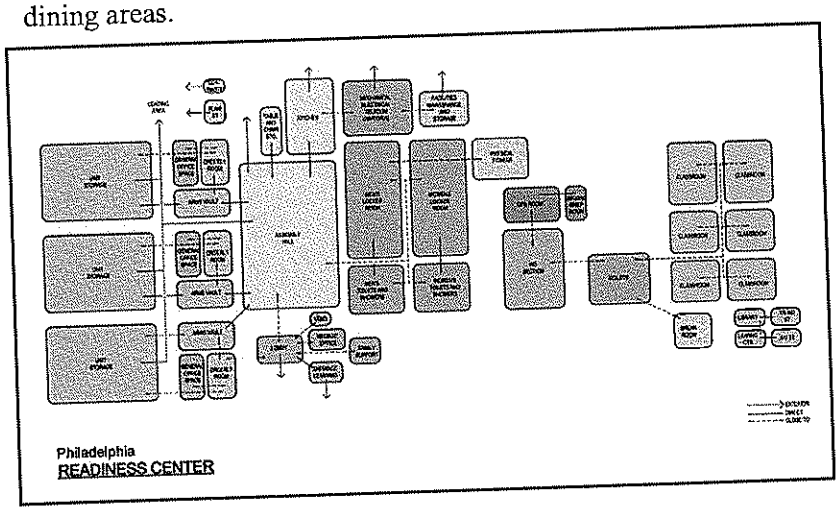
Design/Build RFP Development for PA Army National Guard Stryker Brigade Combat Team Facilities

Statewide, Pennsylvania

Baker was selected by the United States Property and Fiscal Office for Pennsylvania (USPFO) and the Pennsylvania Army National Guard (PAARNG) for the development of Design/Build Requests for Proposals (RFPs) to support the PAARNG's 56th Brigade's conversion to a Stryker Brigade Combat Team (SBCT). In addition, Baker worked with the Pennsylvania Department of General Services (DGS) to create the program's Application for Qualification for potential design/build teams that wish to be considered for contracts under the program. The Stryker is a lightweight tank with rubber tires that is designed for urban warfare maneuverability and portability to any place on Earth within 96 hours or less.

Baker's work amounts to $97,300,000 in construction costs under the $167,000,000 statewide construction program, and includes the development of program and project-level design/build RFP documents for sites throughout the Commonwealth of Pennsylvania.

Key program components include two building types; Readiness Centers for the training of SBCT Soldiers, and Field Maintenance Shops for the maintenance and storage of a variety of military vehicles including the Stryker military vehicle. The Readiness Centers consist of administrative offices, training centers, and conference facilities, with support spaces such as kitchens and dining areas.



Philadelphia
READINESS CENTER

Client

US Property and Fiscal Office for Pennsylvania
PA Department of Military and Veteran Affairs
Building S 0-47, Fort Indiantown Gap
Annville, PA 17003-5003

Pennsylvania Army National Guard
Department of Military Affairs
Bldg 0-47, FTIG
Annville, PA 17003

Completion Date

Estimated: 2010

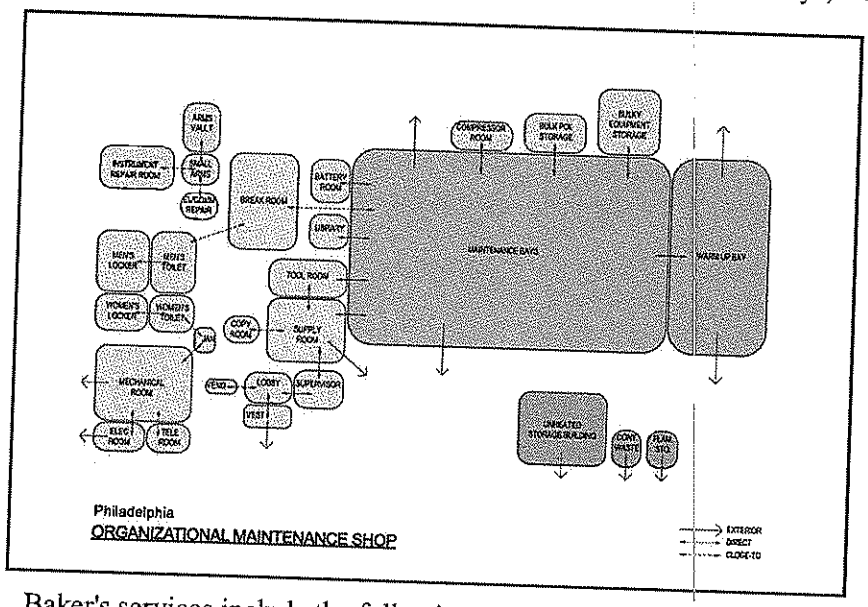
Project Costs

$97,300,000 (Construction)
$5,485,368 (Fee)

Baker's Role

- Sustainable Design (SPiRiT and/or LEED®)
- Architecture
- Civil Engineering
- Structural Engineering
- Mechanical, Plumbing, and Fire Protection Engineering
- Electrical Engineering
- Outline Drawings and Specifications
- Cost Estimating
- Scheduling
- AFQ and RFQ Development
- Construction Management Support Services
- Land Development
- Permitting

The Field Maintenance Shops consist of vehicle maintenance bays, storage facilities, and support spaces.



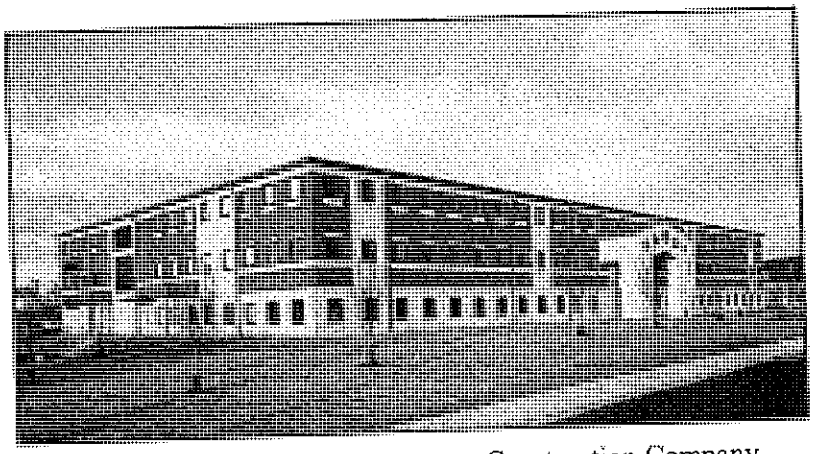
The sustainable design goal is for each finished facility to qualify for a Gold SPiRiT sustainable design rating for FY 2006 and FY 2007, and to meet an equivalent Silver LEED® Certified Rating FY 2008. Baker's task orders include the development of Design/Build RFP documents for new structures, additions, and alterations for twelve sites: Erie, Philadelphia, and Elizabethtown – Readiness Center and Field Maintenance Shop; and Bradford, Huntingdon, Lewistown, Punxsutawney, Butler, Hanover, Lebanon, Huntington, and Hollidaysburg - new Readiness Centers.

Baker's services include the following: Development of the basic overall structure and content of program deliverables, development of the overall program application for qualification of bidders, site investigation, an on-site programming and design charrette for each site, significant architectural and structural engineering services, sustainable design focusing on the military's SPiRiT rating and/or U.S. Green Building Council's LEED®, the development of outline specifications for multidiscipline engineering services in support of the design/build teams, "nearly complete" civil engineering and foundation design services, surveying and geotechnical engineering, land development, permitting, scheduling, cost estimating, other related construction management support services.

In 2005, Baker's architectural space layouts, engineering requirements, and certain equipment and material selection modules that were prepared for the statewide program were incorporated into the Army National Guard's Design Guides. Baker will also support the USPFO, the PAARNG, and their state partner, the Pennsylvania DGS, during their selection of the design/build teams that will carry forward Baker's Project Definition Documents to completed buildings. As construction at the various Pennsylvania sites takes place, Baker also anticipates being contracted to provide construction management services to DGS.

Defense Medical Logistics Center

Fort Detrick, Maryland



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

Completion Date
2007

Project Costs
$28,700,000 (Construction)
$2,265,864 (Fee)

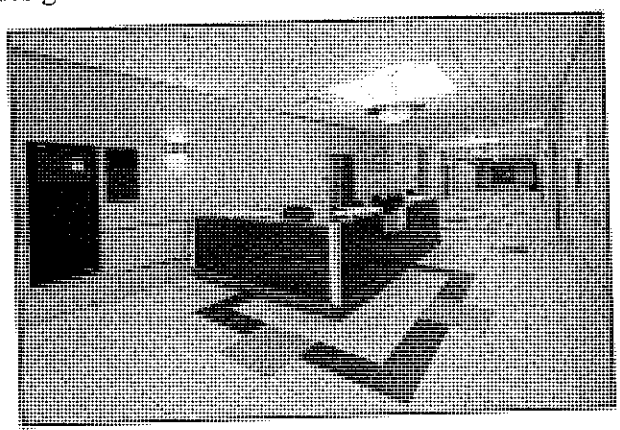
Baker's Role

- Survey
- Site/Civil Engineering
- Geotechnical Engineering
- Permitting
- Landscape Architecture
- Architecture
- Sustainable Design
- Structural Engineering
- Mechanical Engineering
- Plumbing Engineering
- Fire Protection Engineering
- Electrical Engineering
- Design/Build Delivery

Baker, in collaboration with Mascaro Construction Company, was awarded a $26,400,000 design/build contract for architectural design, engineering services, and construction of a new Defense Medical Logistics Center at Fort Detrick in Frederick, Maryland, for the Military Medical Logistics System.

The construction of this new facility allowed the consolidation of nine different medical installations currently housed on Fort Detrick. The mission of the Military Medical Logistics System of providing specialized products and services to support military healthcare is more focused as a result of the new building. The three-story, 128,000-square-foot brick structure houses the top military medical planning agencies from the Air Force, Army, Navy, and Marines. Parking spaces for 310 vehicles were provided for the facility, in accordance with the master plan.

The project was kicked off with partnering meetings and a design charrette involving all project stakeholders. Conceptual plans were developed at the charrette including space allocations and adjacencies, as well as development of the site plan.



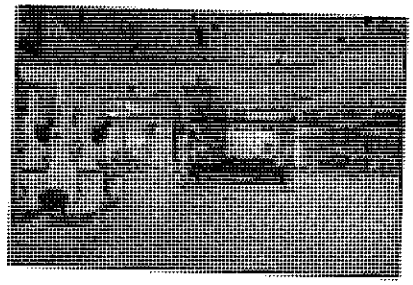
Fort Detrick and USACE Baltimore District attendees from the charrette commented that ***this was the best charrette they had ever attended and they have incorporated elements in future charrettes to facilitate communication and to acquire relevant strategic information from attendees.***

Civil/site design features included an off-site stormwater retention pond and expediting of Stormwater Management permits through MDE. Baker was required to comply with the Fort Detrick Installation Design Guide including reforestation requirements, which allowed for saving as many mature trees as possible, maximizing parking areas, and the retention of historic site

features. The facility was designed to incorporate AT/FP requirements, including blast-resistant windows and frames, low-level progressive collapse, and AT/FP-compliant outside air intakes, and other reinforced building components, as well as a SCIF. Site and building layout incorporates the required standoff distances and Anti-Terrorism Force Protection measures required for this facility type.

The architectural design incorporated many of the exterior facade features prevalent on the Fort Detrick base including a brick veneer and standing seam metal roof. Building layout and location on-site were important considerations to meet required standoff distances. The facility was designed to meet the Silver SPiRiT level of sustainability and includes highly-efficient mechanical systems with energy management capabilities, recycled content materials, use of local/regional building materials, low-VOC materials, and efficient site usage.

The building structure is comprised of a structural steel frame supported by load bearing tilt-up concrete panels supported by a micro-pile foundation system. The selection of tilt-up concrete panels provided lower cost, faster construction, and enhanced blast resistance in comparison to other traditional systems. Additionally, the structure was designed for progressive collapse.

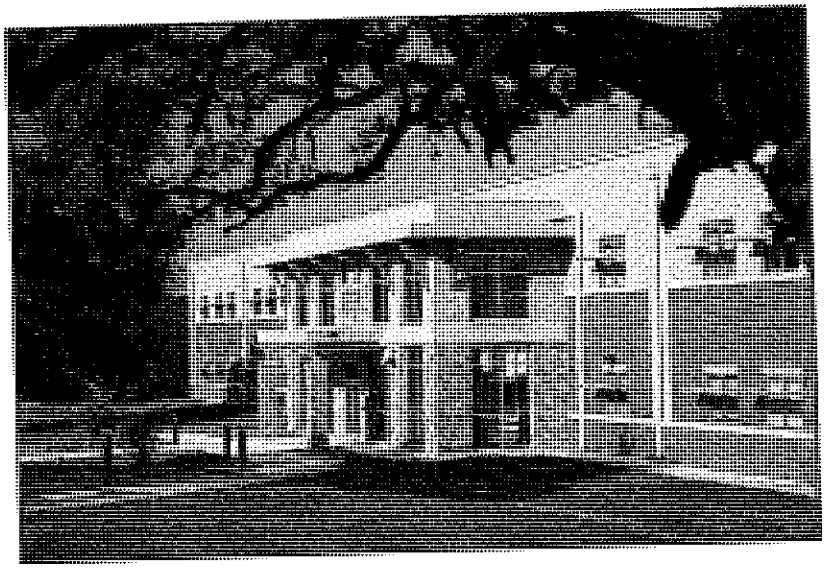


The mechanical design features chilled water, VAV HVAC systems with open cooling towers, and 24/7 HVAC systems on a common glycol dry cooler for critical areas. The mechanical design provides for emergency HVAC systems for the Joint (Emergency) Operations Center.

The electrical design includes dense telecomm/data systems including SIPRNET, multiple IT rooms, and server and computer workrooms. The building includes extremely dense occupancy; very large conference/classrooms; multiple kitchenette kiosks on each floor; sophisticated security systems, and overhead and underground power from 0.5 mile away.

Armed Forces Reserve Center

Camp Bullis, San Antonio, Texas



Client
U.S. Army Corps of Engineers,
Louisville District
Room 821
600 Dr. Martin Luther King, Jr. Place
P.O. Box 59
Louisville, KY 40202

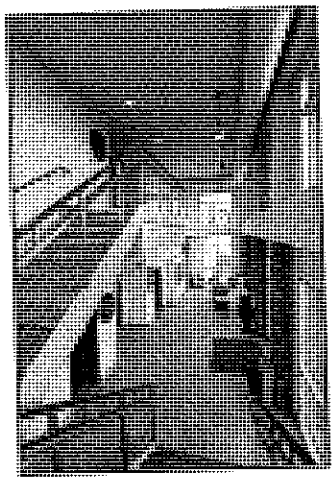
Walbridge Aldinger/Barlett Cocke JV
777 Woodward Avenue
Detroit, MI 48226

Completion Date
2009

Project Costs
$39,100,000 (Est. Construction)
$2,356,872 (Fee)

Baker's Role

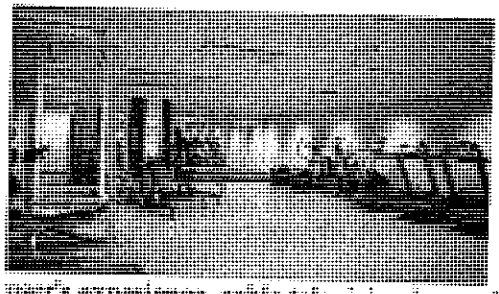
- Architecture
- Interior design
- Site/civil engineering
- Permitting
- Site survey
- Geotechnical engineering
- Structural engineering
- Mechanical engineering
- Plumbing engineering
- Fire protection engineering
- Electrical engineering
- Communications engineering
- Anti-terrorism and force



Baker teamed with Walbridge Aldinger/Barlett Cocke JV, was selected for the design/build delivery of an Armed Forces Reserve Center (AFRC). The facility serves the U.S. Army Reserve and the Texas Army National Guard in order that they may provide combat engineering support in all global operational areas.

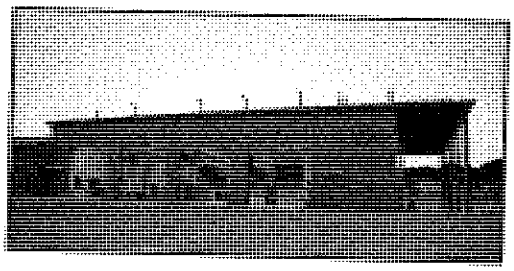
Five buildings were constructed on two separate sites on Camp Bullis, including a Training Center, Heated Organization Unit Storage Building, Vehicle Maintenance Shop (OMS/AMSA), and two Unheated Storage buildings (UHS), plus all site features. The project spans over two tracts of land. The Training Center and Heated Organization Unit Storage will be co-located on Site 1, with the OMS/AMSA along with two Unheated Storage facilities on Site 2. The facility was designed to achieve a Silver LEED® sustainable rating. Baker is designer-of-record for the project and delivered services including a design charrette, architecture, interior design, structural engineering, site/civil, and all building systems engineering.

The Training Center provides administrative, educational, assembly, library, learning center, vault, weapons simulator, locker room and showers/latrines, physical fitness, and kitchen areas for the reserve units that total 869 reservists and guardsmen. The facility is a 95,871-square-foot two-story building constructed of a combination of brick and decorative concrete masonry units on a metal stud back-up system, and includes a one-story unit storage and assembly room component. Stone column bases and wood or timber roof support brackets add to the Texan style of the structure.



The Training Center contains a 1,600-square-foot fitness center outfitted with a full complement of various athletic equipment including treadmills, exercise bikes, steppers, nautilus machines, and free weights. Much of the equipment provided is human-powered, thereby reducing energy costs and eliminating any outside power requirements. The designs employ sound-absorbing building materials throughout and soft, absorbent flooring which reduces user fatigue and protects floor substrates. To enhance the user's experience, cable television is provided as well as appropriate lighting and outside views. Supporting men's and women's showers and locker rooms are also included.

The Heated Organization Unit Storage is a 47,628-square-foot one-story pre-engineered steel-framed building with a slab-on-grade floor, standing seam roof, and a masonry veneer exterior, and contains unit storage bays on either side of a central office core. Located behind the Training Center, the storage building's masonry veneer facade compliments and supports the exterior of its neighboring facility.



Work bays are provided on each side of the central support area of the Vehicle Maintenance Shop (OMS/AMSA) for use by the Texas National Guard and the Army Reserve. The 37,622-square-foot one-story structure is a steel-framed pre-engineered building with a slab-on-grade floor, with a wainscot of CMU, metal siding exterior skin, and standing seam metal roof system. The maintenance shop provides work bays, 10-ton overhead crane, 7.5-ton crane, and maintenance administrative support areas. The support spaces provide supply and tool storage, offices, and lockers/showers and latrine, shared or specific to each of the units. Attached covered exterior wash bays are provided for each unit at either ends of the building. The project also provides for unit maintenance training, unit storage, and adequate parking spaces for all military and privately-owned vehicles.

Two Unheated Storage buildings were provided, totaling 7,950 square feet. The buildings are pre-engineered steel structures forming an open interior for installation of cages and storage systems.

The buildings are of permanent construction with reinforced concrete foundations and concrete floor slabs, mechanical, electrical, and information systems, interior finishes, window systems, roof decks with single-ply membrane roofing, and exterior finishes. Furniture layouts are being provided during the construction document phase of the Comprehensive Interior Design (CID) and Structural Interior Design (SID) package, which will designate the furniture in each office and the standard of finish required. Interior design materials will be coordinated with and will complement the exterior design materials and colors. Colors, materials, and signage will be used to distinguish various areas of the building from each other and to orient the users through these areas.

Force protection measures incorporated include blast-resistant windows and frames, card-reader security system, berms, heavy landscaping, gates, and bollards to prevent access when standoff distances cannot be maintained. Supporting facilities included site preparation, paving, fencing, and extension of utilities to serve the project. MEP and POV parking is provided. The design included all utilities, storm drainage, communications, electric, HVAC, fire protection/alarm systems, IDS, paving, walks, curbs, parking, access roads, exterior lighting, site improvements, and grading. Baker also secured permits for stormwater management with the Texas Commission on Environmental Quality for the project, which is located in the Edwards Aquifer area. These requirements are very strict since the Edwards Aquifer is a unique groundwater system, and one of the most prolific artesian aquifers in the world, which supplies water to the San Antonio area.

U.S. Armed Forces Reserve Center

Bristol, Pennsylvania

Baker developed Design/Build RFP Documents for a new 600-member Armed Forces Reserve Center with Organized Maintenance Shop (OMS) and an Unheated Storage (UHS) building that realigns Army Reserve and Marine Reserve units as directed by BRAC 05. The facility provides administrative, educational, assembly, library, learning center, vault, weapons simulator, and physical fitness areas for eight Army Reserve units and three Marine units, as well as provides adequate parking for all military and privately-owned vehicles.

A 94,500-square-foot training building (AFRC), an 8,900-square-foot Organized Maintenance Shop (OMS), and a 2,900-square-foot unheated storage (UHS) building was included in the RFP package.

The buildings are permanent construction with reinforced concrete foundations, concrete floor slabs, and include mechanical, electrical, and information systems including SIPRNET rooms. Supporting facilities include site preparation, paving, fencing, and extension of utilities to serve the project.

The facility provides space and equipment to maintain vehicles and associated equipment for all levels of maintenance including storage, inspection, lubrication, preventive maintenance, diagnostic analysis, welding, body work, replacement of direct exchange systems, mobile maintenance team support, replacement of major components, repair of emission control system, performance of body and frame repair, sanding, painting, and administration and scheduling of vehicle use and maintenance.

The physical training portion of this project contains a 1,600-square-foot fitness center outfitted with a full complement of various athletic equipment including treadmills, exercise bikes, steppers, nautilus machines, and free weights. Much of the equipment provided is human-powered, thereby reducing energy costs and eliminating any outside power requirements. The designs employ sound-absorbing building materials throughout and soft, absorbent flooring which reduces user fatigue and protects floor substrates. To enhance the user's experience, cable television is provided as well as appropriate lighting and outside views. Supporting men's and women's showers and locker rooms are also included.

Client
U.S. Army Corps of Engineers,
Louisville District
Room 821
600 Dr. Martin Luther King, Jr. Place
P.O. Box 59
Louisville, KY 40202

Completion Date
2009

Project Costs
$25,000,000 (Est. Construction)
$392,282 (Fee)

Baker's Role
- Design Charrette
- Design/Build RFP Documents
- Building Information Modeling
- Site/Civil Engineering
- Survey and Mapping
- Geotechnical Engineering
- Landscape Architecture
- Anti-Terrorism and Force Protection
- Planning
- Architecture
- Structural Engineering
- Mechanical Engineering
- Plumbing Engineering
- Fire Protection Engineering
- Electrical Engineering
- Sustainable Design
- Cost Estimating

The facility meets Silver LEED® standards and is ADA compliant. Supporting facilities include utilities, site improvements with area lighting, pavement, walls, curbs, gutters, non-organizational and handicapped accessible parking, landscaping, and supporting military equipment parking. Anti-terrorism and force protection (physical security) requirements incorporated into the design include installation of blast-proof windows and building setbacks using maximum feasible standoff distance from roads, parking areas, and

vehicle unloading areas. Berms, heavy landscaping, and bollards are incorporated to prevent access when standoff distances cannot be maintained. Military equipment parking (MEP) and private owned vehicle (POV) parking is provided. The RFP development consists of conducting a design charrette, providing a topographical survey and geotechnical investigation, performing a utility survey, developing conceptual site plans, floor plans, and building elevations, developing RFP specifications, preparing DD Form 1354 – Transfer of Real Property, and providing a PACES construction cost estimate. The project employs the client's new directive to allow for commercial type building construction to promote cost efficiency and competition.

Training and Doctrine Command (TRADOC) Headquarters

Fort Eustis, Virginia

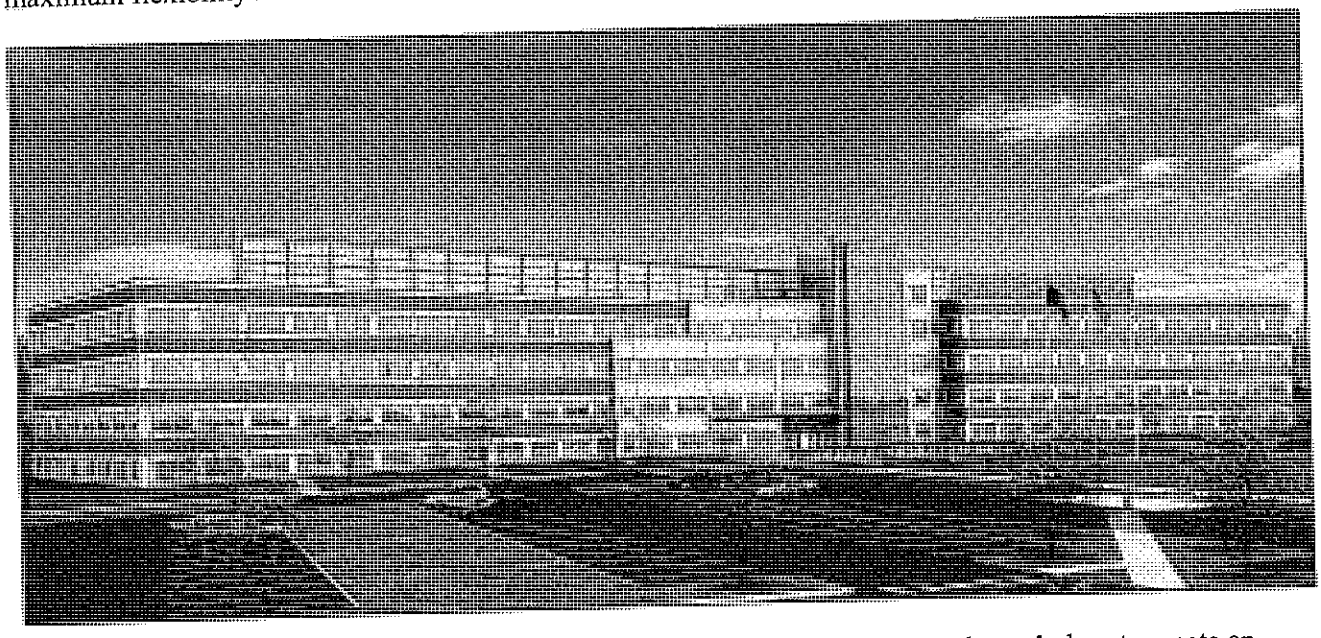
Client
Tompkins Builders
1333 H Street, NW, Suite 200
Washington, DC 20005-4799

Completion Date
Estimated: 2011

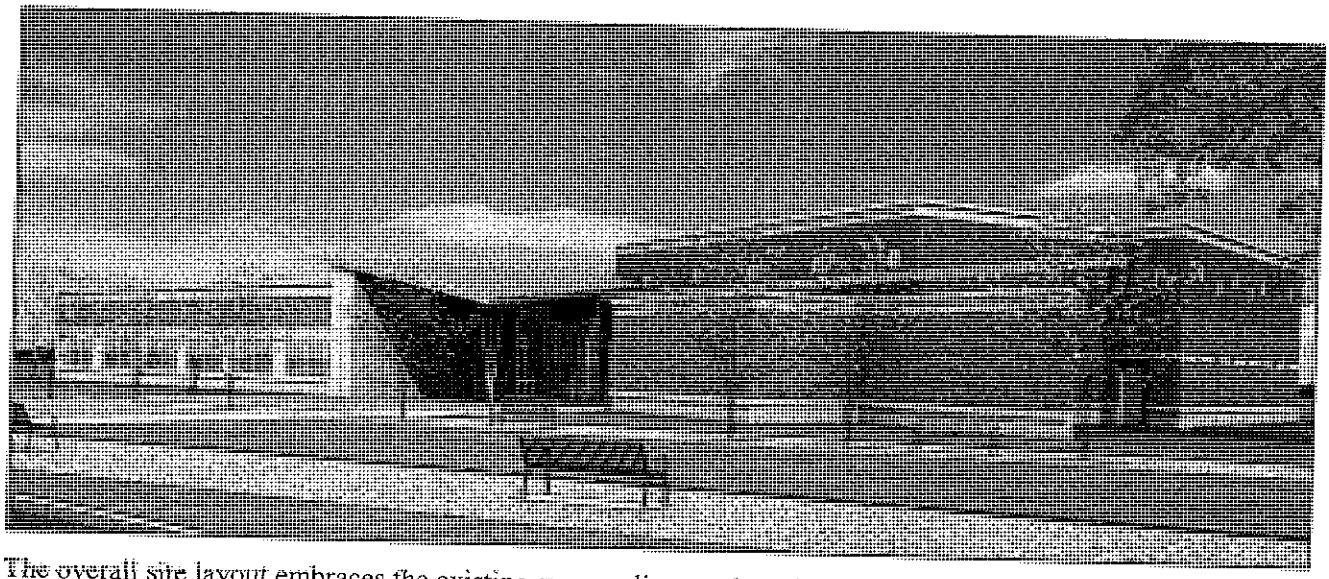
Project Costs
$87,000,000 (Construction)
$4,600,586 (Fee)

This new 260,000-square-foot state-of-the-art Design/Build headquarters building provides high quality, private-sector/commercial-style office, auditorium, and conference space for the Army Command operations and is one of only four permanent headquarters locations for the Army's Four-Star Generals.

Contrasting styles and design treatment are deliberately used for the building in response to facades that face the street or the internal ceremonial field, and, at the same time, establishes a strong identity and design aesthetic appropriate to the Training and Doctrine Command (TRADOC) vision, and is complimentary to the Fort Eustis environment and adjacent facilities. The street facade is of a traditional horizontal brick pattern, while a more contemporary facade of precast concrete panels and glass faces the interior complex and the ceremonial field, and also defines the central entrance, conference center, cafeteria, and the fifth floor Command Office Group. Internally, the facility uses a single, continuous, modular plan with all core functions located in a central bay with column-free space around the entire perimeter of each floor to allow maximum flexibility for current and future program requirements.



A Band facility, also located on the site, is designed using the same architectural vocabulary to create an integrated campus environment and positioned to save several existing mature trees and to allow expansion of the parking area, the ceremonial fields, and future developments.



The overall site layout embraces the existing surroundings and works harmoniously to create a highly visible, aesthetically pleasing, and functional site plan by relating to the existing adjacent open spaces, features a large body of water, and allows for future development. The formal ceremonial area is composed of three interconnected grass fields that are framed by double rows of trees and with the building as a prominent backdrop; the continuous open space is further enhanced with the option to close the raised driveway between the entrance plaza and the ceremonial fields allowing for a more comfortable pedestrian environment and flexible open space.

With a construction contract of $87 million, the facility meets Anti-Terrorism Force Protection (AT/FP) setback requirements while providing prominent views of the facility, and is designed to meet Silver LEED® criteria.

Armed Forces Reserve Center

Grand Prairie, Texas

The design/build team of a consultant and Baker was selected to construct a new Armed Forces Reserve Center (ARFC) for units of the U.S. Army Reserve (USAR) and the Texas Army National Guard (TARNG) at the Grand Prairie Reserve Complex. The mission of the USAR unit is to provide combat engineering support in all global operational areas. The USAR uses the AFRC for administrative activities, to plan and support operations, and to train unit personnel in their engineering specialties.

The project is for the construction of four separate buildings on various sites on the Reserve Complex. Buildings include a new Administration Building, Storage Building, Facility Maintenance Storage (FMS) Building, and an Unheated Storage Building (UHS).

Site improvements involved extending the required utilities to the new buildings and providing fencing, landscaping, and pedestrian pathways. The site was graded and necessary soil preparation/improvements accomplished in order to provide support for building footings and site pavements. Building setbacks for anti-terrorism and force protection (AT/FP) were incorporated, with all elements of the administration building being located within the AT/FP primary gathering setback, 148'-0" from the property line and 82'-0" from the secured POV parking.

The 78,600-square-foot Administration Building is comprised of a two-story rectangular building with an assembly room and kitchen/dining component, administrative offices, Retention and Family Services offices, physical readiness room and locker areas, two SIPRNET rooms, classrooms, and a library. In order to provide the most cost-effective building layout, the team revised the floor plans designed by others for the design/build RFP documents, creating a typical rectangular floor plate and eliminating many costly exterior corners, redundant interior circulation, and

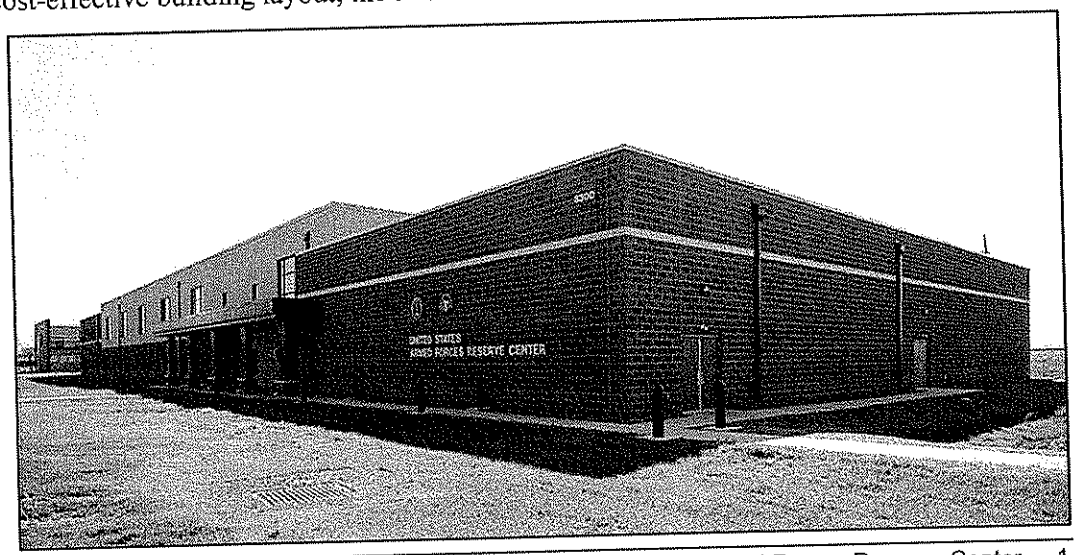
Client
U.S. Army Corps of Engineers,
Louisville District
600 Martin Luther King Place
Room 961
Louisville, KY 40202-0059

Completion Date
Estimated: 2010

Project Costs
$29,124,523 (Construction)
$1,987,600 (Fee)

Baker's Role

- Survey
- Site/civil engineering
- Geotechnical engineering
- Sustainable design
- Anti-terrorism and force protection
- Architecture
- Interior design and space planning
- Structural engineering
- Mechanical engineering
- Plumbing engineering
- Fire protection engineering
- Electrical engineering
- Communications design
- Design/build delivery



Baker

odd building massing that was originally desired by the owner. During the Design Charrette, the original design/build RFP documents and plans were modified slightly from stakeholder input.

The physical readiness room contains a 1,600-square-foot fitness center outfitted with a full complement of various athletic equipment including treadmills, exercise bikes, steppers, nautilus machines, and free weights. Much of the equipment provided is human-powered, thereby reducing energy costs and eliminating any outside power requirements. The designs employ sound-absorbing building materials throughout and soft, absorbent flooring which reduces user fatigue and protects floor substrates. To enhance the user's experience, cable television is provided as well as appropriate lighting and outside views. Supporting men's and women's showers and locker rooms are also included.

The FMS building is a one-story, 30,580-square-foot, T-shaped structure with work bays on the east side of the support/office area. Work bays include a 7.5-ton overhead crane with a hook height of 14 feet that spans the width of the building. Support and office spaces are located at the western end of the work bay area and include supply and tool storage, offices, locker rooms, and toilets.

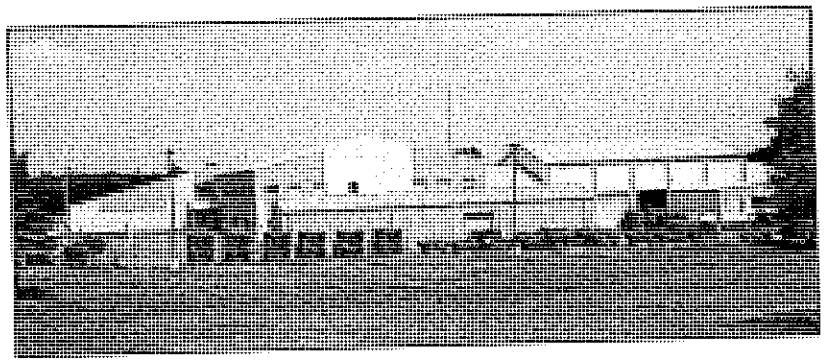
The 30,650-square-foot Storage Building and 4,900-square-foot UHS are pre-engineered buildings with metal siding and roof.

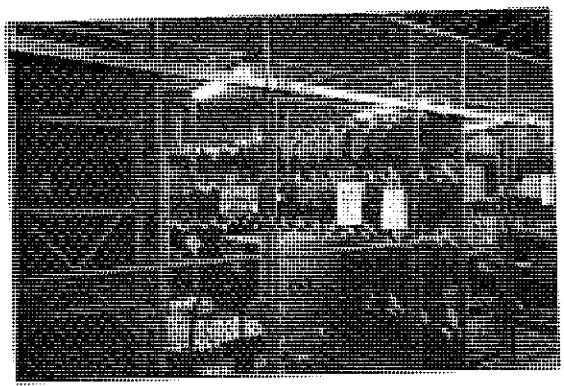
U.S. Army Reserve Center OMS/AMSA/STRG

Greenville, South Carolina

Baker designed a replacement structure for the 1st LT Thomas Kukowski Army Reserve Center (Kukowski ARC). The original facility, built in 1975, was determined to be in poor condition and didn't meet the minimum Department of Defense anti-terrorism/force protection standoff distance requirements for a primary gathering place, rendering the structure inadequate for expansion. Plans included demolishing the older facility and replacing it with a new 88,500-square-foot multi-story Training Center and Organized Maintenance Shop/ Area Maintenance Support Activity (OMS/AMSA), and Unheated Storage (STRG) to accommodate 600 reservists from the consolidation of the Kukowski ARC and two other ARCs.

The new permanent structures were designed with structural steel frames, masonry veneer exterior walls, and standing seam metal roofs. The project included design of the HVAC mechanical, plumbing, fire suppression, electrical, and security systems, and has energy-efficient lighting, and automated building HVAC and lighting system controls. The Training Center and OMS/AMSA is equipped with a fire suppression sprinkling system. Interior design services followed furniture procurement package requirements for Army Reserve Centers, using the USAR Furniture Design Guide and USAR Furniture Standards Knoll Product Criteria.





Client
U.S. Army Corps of Engineers,
Louisville District
Room 821
600 Dr. Martin Luther King, Jr. Place
P.O. Box 59
Louisville, KY 40202

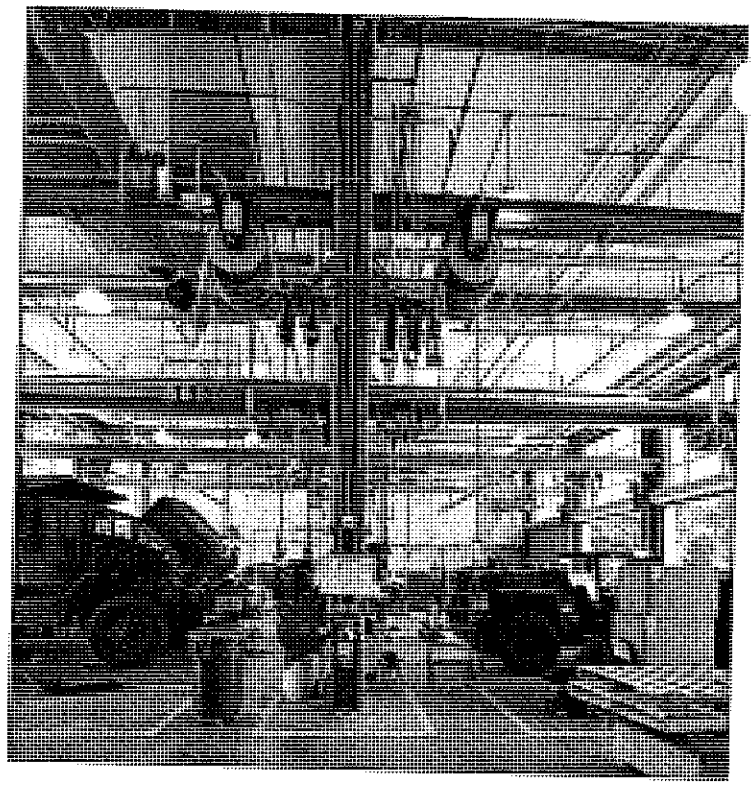
Completion Date
2005

Project Costs
$13,813,700 (Construction)
$1,353,839 (Fee)

Baker's Role

- Planning
- Design charrette
- Site/Civil engineering
- Hydraulics and hydrology
- Stormwater management
- Erosion and sedimentation control
- Permitting
- Utility investigations/relocation design
- Geotechnical engineering
- Anti-Terrorism/force protection
- Architecture
- Life safety and ADA compliance
- Structural engineering
- Mechanical engineering
- Plumbing engineering
- Fire protection engineering
- Electrical engineering
- Environmental engineering
- Scheduling

The OMS/AMSA portion of the building houses office and administrative areas, a medical section that includes office areas and medical examination rooms, tool and parts storage, 10 work bays, one welding bay, controlled and flammable storage, wash bay, and building support functions. One drive-through bay is serviced by an overhead traveling crane. The Training Center houses offices and administrative spaces, caged unit storage, classrooms, library, learning center, weapons simulation room, physical readiness area, engagement skills trainer, a COMSEC training room, an arms vault and armorer's room, an assembly hall, kitchen, and building support functions. The project also included paving design for on-site parking and storage for military vehicles and for privately owned vehicles.



The physical training portion of this project contains a 1,600-square-foot fitness center outfitted with a full complement of various athletic equipment including treadmills, exercise bikes, steppers, nautilus machines, and free weights. Much of the equipment provided is human-powered, thereby reducing energy costs and eliminating any outside power requirements. The designs employ sound-absorbing building materials throughout and soft, absorbent flooring which reduces user fatigue and protects floor substrates. To enhance the user's experience, cable television is provided as well as appropriate lighting and outside views. Supporting men's and women's showers and locker rooms are also included.

Supporting facilities include site preparation, stormwater management plan, paving, fencing, security lighting, site signage, wash racks, storm drainage, and extension of utilities. Force protection measures were incorporated by using the maximum feasible standoff distances from roads, parking areas, and vehicle unloading areas, as well as barriers, walls, and other reinforced building components. Gold SPiRiT sustainable features included highly-efficient mechanical systems, recycled content materials, low-VOC materials, and efficient site usage.

Although asbestos and lead dust surveys had previously been performed by the government, Baker's state-accredited inspectors and environmental engineers took samples of suspected asbestos containing materials for testing at a NVLAP-accredited laboratory. An on-site inspection was also performed to identify potential PCB-containing equipment (e.g., transformers, light ballasts) to identify the extent of on-site hazardous materials requiring proper removal and disposal prior to demolition.

This project is a Task Order under an Indefinite Delivery Indefinite Quantity Contract with the client. Professional services range from conducting a design charrette to preparing construction bid documents, to performing construction administration. A complete design, including plans and specifications that meet a Gold SPiRiT rating, seismic analysis, bid schedule, an order of work clause, construction contractor submittal register, quantity and cost estimates, M-CACES construction cost estimates, proposed construction schedule, design analysis and calculations, design documentation report, and engineering considerations and instructions reports, as well as preparation of DD Form 1354 (Transfer of Real Property) are components of this project.

Armed Forces Reserve Center

McAlester, Oklahoma

Client
U.S. Army Corps of Engineers,
Louisville District
Room 821
600 Dr. Martin Luther King, Jr. Place
P.O. Box 59
Louisville, KY 40202

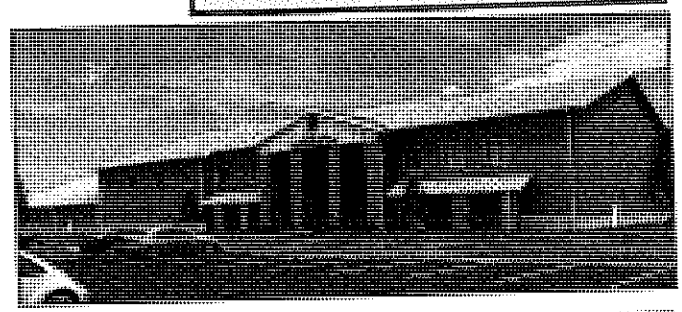
Completion Date
Estimated: 2010

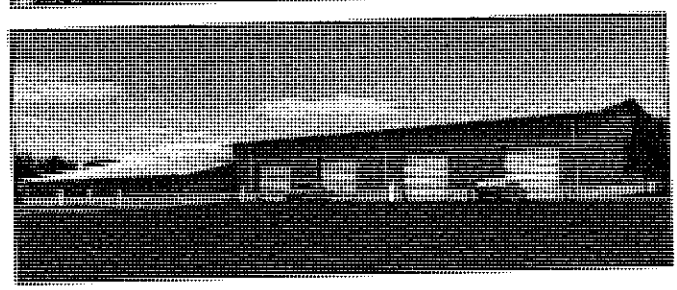
Project Costs
$826,440 (Fee)

Baker's Role
- Architecture
- Multi-discipline engineering

The Korte-Baker design/build team is constructing a new 200 member Armed Forces Reserve Center (AFRC) for the United States Army Reserve (USAR) and the Oklahoma National Guard (OK ARNG) on approximately 15.5-acre site at the McAlester Army Ammunition Plant outside of McAlester, Oklahoma. The complex consists of an Armed Forces Reserve Center (Training Center), a Vehicle Maintenance Shop (VMS) that is a combined organizational maintenance shop and Field Maintenance Shop, and an Unheated Storage Building (UHS). The facility was designed to achieve a Silver LEED® sustainable rating; sustainable features include highly-efficient mechanical systems, recycled content materials, low-VOC materials, and efficient site usage.

Baker will design the building and site facilities, including required utility, storm drainage, communications, electrical, HVAC, and fire protection/alarm systems. The designs will also include Intrusion Detection Systems (IDS), force protection measures, and site improvements on government-owned land at the McAlester AAP.





The Training Center will be an approximately 50,693 square foot, two-story facility. For economy, the building massing design will be kept simple, with a primary two-story central mass, a lower one-story building storage area to the west, and an attached 1-1/2 story eastern building area for the assembly hall. This simple, proportional massing design will provide maximum value for the given areas.

The VMS Building, a combined organizational maintenance and field maintenance shop, will be a four-bay, pre-engineered building roughly 25,504 square feet in area. Visually, the building will be linked with the primary Training Center building through the use of common exterior materials, colors and roof massing. It is the design team's intention to create a "campus" aesthetic with the buildings and site design. The western portion will be a higher building area containing the workbays. The support building area will be a lower mass. This arrangement will allow for an adjacent detached wash platform, an additional OK ARNG workbay to the west, and a future USAR workbay to the east. The four drive-through maintenance bays will have a 15-ton crane with 17-foot hook height. The eastern portion of the building will house controlled waste, flammable storage, battery and bulk storage, parts rooms, tool rooms, equipment storage areas, electronics shop, library, offices, classroom/break room, showers, lockers, and mechanical systems.

The UHS building will be a simple, cost-effective pre-engineered metal building. The intention is to visually connect this secondary structure with the Training Center and VMS through the use of common materials, colors and roof mass. A masonry wainscot will be proposed around the base, similar to the VMS and complimentary to the AFRC Training Center building.

Design/Build SATOC for Military Facilities

Various Locations in Southwestern U.S., AR, AZ, CA, LA, NM, NV, OK, TX

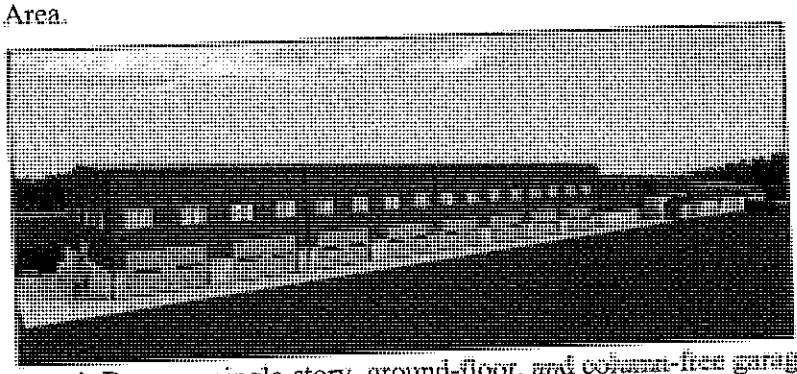
The team of Baker and Walbridge Aldinger Company was awarded an Indefinite Delivery/Indefinite Quantity (ID/IQ) Single Award Task Order Contract (SATOC) by the U.S. Army Corps of Engineers' Tulsa District for design/build projects in the Southwest Region of the United States. Projects constructed under this contract include Brigade Combat Team (BCT) Tactical Equipment Maintenance Facilities (TEMF), Unit Operations Facilities, Fire Brigade Facilities, and Combat Aviation Brigade Facilities. TEMFs provide facilities for the purpose of maintaining and repairing vehicles, complete with equipment and parts storage, and administrative offices.

Client
U.S. Army Corps of Engineers, Tulsa District
224 S. Boulder Street
P.O. Box 61
Tulsa, OK 74121

Completion Date
$115,930,000 (Est. Construction)
$4,269,989 (Fee)

Baker's Role
- Planning and Programming
- Sustainable Design
- Site/Civil Engineering
- Anti-terrorism and Force Protection
- Architecture
- Interior Design
- Structural Engineering
- Mechanical Engineering
- Plumbing Engineering
- Fire Protection Engineering
- Electrical Engineering
- Communications Design
- Vehicle Fluid Systems Design
- Design/Build Delivery
- Building Information Modeling (BIM)

TEMFs are composed of two main types of functional areas: Repair Bays, consisting of repair areas and maintenance areas; and the Core Area.



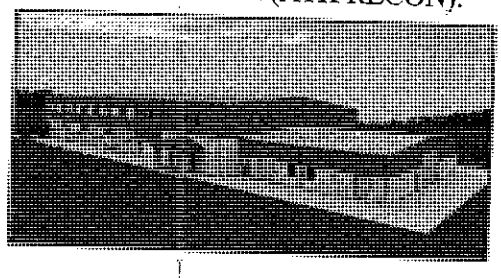
Repair Bays are single-story, ground-floor, and column-free garage areas used for service and repair of the full range of Army tactical equipment. They contain repair work areas with a central drive lane, a wash bay, data connection points for NIPRNet and SIPRNet, and 10-ton and 35-ton traveling-bridge cranes. A wide central drive lane divides repair work areas, providing maintenance and welding areas. A vehicle exhaust evacuation system is housed within the core area that also services each repair work area. Maintenance areas are equipped for inspection, oil changing, and lubrication with POL hose reels for grease, oil, and other lubricants and fluids. A maintenance pit is provided with a removable cover that is capable of supporting pedestrian traffic when the pit is not in use. Emergency stations for eyewash, hand wash, and showers are provided to meet OSHA standards.

Core Areas contain the following functional spaces: administration and shop control office space; training classroom; consolidated bench shop space for electronics, optics, and other gear; tool room and tool box storage area; combat spare parts for storage and issue of Prescribed Load List (PLL) and shop stock items; separate male/female latrine, showers, and locker rooms; break, training and conference room with kitchen and equipment; armory vault for storage of weapons being repaired with intrusion detection system; COMSEC vault for storage of communications / cryptology equipment; non-sensitive secure storage; telecommunications equipment room for voice and data; and common circulation and waiting areas such as janitorial spaces, mechanical and electrical rooms, and fluid distribution room. Extra-large-sized TEMFs are expanded to include administrative office space to accommodate Brigade Logistics Support Team (BLST) personnel.

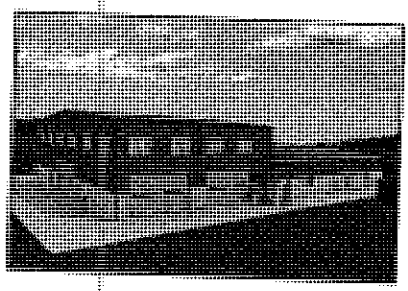
Site functional areas include: a docking location for specialized permanently-vehicle-mounted communications equipment; concrete-paved vehicle parking areas for military, POL, dead line, and POVs; site storage facilities including hazardous waste storage building, POL storage building, organizational storage building, distribution company storage facility, secure open storage, and storage tanks for waste oil and engine coolant.

Representative Task Orders awarded to date include the following:

Task Order No. 0001 was for two TEMFs at Fort Bliss in El Paso, Texas, to be shared by five Battalions and one Company. One medium-sized, 35,290-SF TEMF is for use by Attack Recon Battalion (ATK RECON). Additional structures that are a part of the facility include a 720-SF facility for oil storage and a 720-SF storage building for hazardous materials. A second extra-large 74,688-SF TEMF is shared by the General Support Battalion, Assault Battalion, Aviation Support Battalion, and ATS Company. Additional structures that are a part of this facility include an 8,000-SF distribution company storage facility, a 1,620-SF facility for oil storage, and a 1,620-SF building for hazardous materials storage.



Task Order No. 0002 was for three TEMFs for the 31st ADA Brigade at Fort Sill, Oklahoma. The project included 18,000-SF, 35,200-SF, and 57,031-SF TEMFs, each with independent Hazardous Waste storage, POL storage, and Organizational storage facilities. A 20,000-SF Supply Support Activity was also provided. Designs were required to meet or exceed a Silver LEED® certification and be registered with the U.S. Green Building Council with building systems required to meet the minimum requirements of ANSI / ASHRAE / IESNA Standard 90.1-2004. Anti-terrorism and force protection measures met Department of Defense Minimum Anti-terrorism Standards for Buildings, UFC 4-010-01.



Task Order No. 0003 was for a Fires Brigade TEMF at Fort Bliss in El Paso, Texas. The project includes one medium-sized 32,290-SF TEMF and a 6,300-SF Organizational Storage facility. Additional structures that are a part of this facility include a 540-SF oil storage facility and a 540-SF building for hazardous materials storage. The second floor houses office space and training facilities with a small kitchen for the unit. There are server and telecommunication areas in the building, as well as an elevator and mechanical and electrical equipment rooms. The building is designed to comply with the UFC anti-terrorism and force protection requirements as well as being Silver LEED® certified.

Task Order No. 0004 was for a Unit Operations Facilities complex at Fort Bliss in El Paso, Texas. The project includes one medium-sized, 32,290-SF TEMF and a 6,300-SF Organizational (Deployment) Storage facility for use by the Combined EOD Company Operations, Military Police Company Operations, and Engineer Clearance Company Operations. Additional structures that are a part of this facility include a 540-SF oil storage facility and a 540-SF building for hazardous materials storage.

Task Order No. 0006 is for a TEMF at White Sands Missile Range, NM. The project includes one medium-sized 35,290-SF TEMF with a 10-ton bridge crane, to accommodate approximately 437 organizational vehicles. Additional structures that are a part of this facility include a 1,560-SF POL storage facility, a 1,560-SF building for hazardous materials storage, and an 11,550-SF organizational storage building.

Facility designs are required to meet or exceed a Silver LEED® certification and be registered with the U.S. Green Building Council. The building envelope, HVAC systems, service water heating, power and lighting systems are

to meet the minimum requirements of ANSI / ASHRAE / IESNA Standard 90.1-2004, so that they may achieve a minimum energy consumption of 30%. Sustainable features of the design include natural lighting and ventilation through the use of operable clerestory windows, energy-efficient HVAC systems using climate zone technology that also meets minimum indoor air quality performance, cool roofing systems, and storage and collection of recyclables. Additionally, a construction waste management plan and waste diversion reporting are required to support Army quarterly waste reduction reporting (SWAR) requirements.

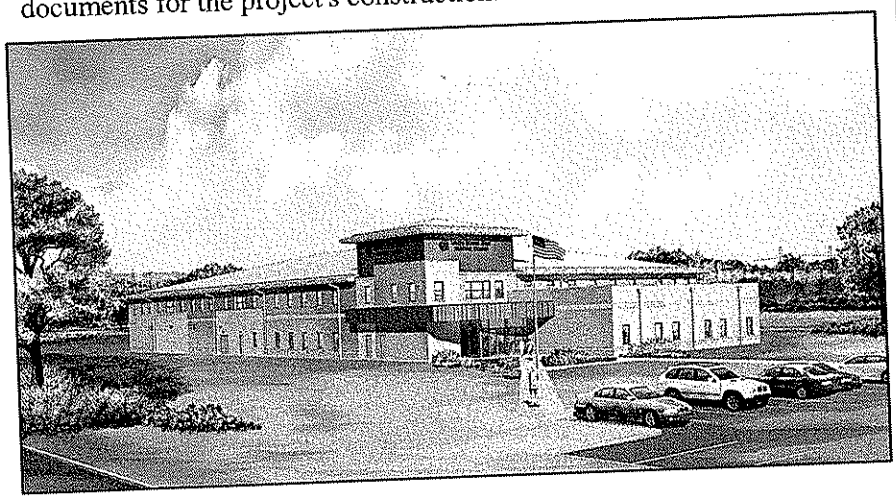
Anti-terrorism and force protection measures were required to meet Department of Defense Minimum Antiterrorism Standards for Buildings, UFC 4-010-01, and include the following: providing protection against explosives' effects through blast-resistant windows, frames, anchors, and supports; progressive collapse resistance for any structure three stories or higher; mass notification system; separate HVAC systems for mailrooms that are also sealed off from the rest of the buildings; building set-backs, establishing large standoff distances to parking, roadways, and installation perimeters, or through building hardening; a perimeter fence with clear zones free of vegetation, gates, and perimeter security lighting.

Typical services under this contract include the following: planning, design, estimating, and construction; site planning and site verification; site engineering to include subsurface investigations, laboratory analysis, and final geotechnical report; pavement design; coordination with utility providers, Land Development Engineer, and other product-line contractors; acquisition of all local, state and federal permits; architectural and interior design (CID, SID, and FF&E) to include building exterior and interior, signage, and comprehensive furniture package; design of telecommunications systems and service; lightning protection systems; heating, ventilation, and air conditioning to include building automation systems, testing, adjusting and balancing, and commissioning; energy conservation; fire protection; sustainable design solutions to meet a minimum Silver LEED® criteria in support of the MILCON program; site electrical systems; meetings and design review conferences; design configuration management; quality control systems; safety plans; environmental protection through plans, incorporating protection features, environmental assessment of contract deviations, land resources plans, monitoring water resources, air resource monitoring and control, chemical materials management and waste disposal, recycling and waste minimization, preservation of historical, archaeological, and cultural resources, protection of biological resources, integrated pest management, and post construction clean-up; traffic control plans; scheduling and phasing; preparation of design drawings using AutoCAD and MicroStation; and development of as-built drawings and operation and maintenance manuals.

Armed Forces Reserve Center

Naval Station Newport, Rhode Island

As directed under the BRAC 2005 initiative, eight U.S. Army Reserve Centers (USARC) were consolidated and relocated into a new facility that provides adequate training space for the newly formed 400-member Reserve unit. The consolidation facilitated the closure and disposal of three units, including: Quinta-Gamelin USARC; PVT Lloyd S. Cooper III USARC; and CPT Jonathan H. Harwood Jr. USARC. Baker was tasked to provide full design documents for the project's construction.



The new 7.5-acre site was developed to include three structures, totaling 64,828 square feet, including a two-story, 58,976-square-foot USARC Readiness Training Center (RC), 3,115-square-foot Organizational Maintenance Shop (OMS), and a 2,735-square-foot Unheated Storage (UHS) facility. The RC offers administrative, educational, assembly, library, learning center, vault, weapons simulator, and physical fitness areas for the eight consolidated Army Reserve units. The OMS provides work bays and maintenance administrative support. A UHS and adequate organizational parking spaces for all military and privately-owned vehicles were also provided.

Client
U.S. Army Corps of Engineers,
Louisville District
Room 821
600 Dr. Martin Luther King, Jr. Place
P.O. Box 59
Louisville, KY 40202

Completion Date
Estimated: 2011

Project Costs
$18,500,000 (Est. Construction)
$1,582,742 (Fee)

Baker's Role

- Design Charrette
- Value Engineering
- Sustainable Design
- Site/Civil Engineering
- Anti-terrorism and Force Protection
- Demolition Design
- Architecture
- Comprehensive Interior Design
- Structural Engineering
- Mechanical Engineering
- Plumbing Engineering
- Fire Protection Engineering
- Electrical Engineering
- Communications Design
- Cost Estimating

Buildings are of permanent construction with HVAC, plumbing, mechanical, security, and electrical systems. The structures are in compliance with ADA requirements for accessibility by the disabled. Supporting facilities included land clearing, paving, fencing, general site improvements, and extension of utilities to serve the project. Anti-terrorism and force protection measures included maximum standoff distances from roads, parking areas, and vehicle unloading areas. Berms, heavy landscaping, and bollards were used to prevent access when standoff distances could not be maintained. Sustainable Design and Development (SDD) and Energy Policy Act of 2005 (EPAct05) features were provided to meet the Silver level of LEED® certification.

Baker's services included conducting a design charrette, developing the conceptual design, performing value engineering, and providing the Louisville District, U.S. Army Corps of Engineers with a design-bid-build package.

Armed Forces Reserve Center

Rutland, Vermont

Baker developed Design/Build RFP Documents for a new 600-member Armed Forces Reserve Center. A 97,634-square-foot training building (AFRC), a 14,600-square-foot multi-use classroom, a 7,302-square-foot Organized Maintenance Shop (OMS), and a 3,113-square-foot unheated storage (UHS) building is included in the RFP package. The center accommodates training and mobilization, and provides for the storage, inspection, maintenance, and repair of combat and tactical vehicles and equipment associated with the regional deployment of Vermont Army National Guard and U.S. Army Reserve units.

The buildings are permanent construction with reinforced concrete foundations, concrete floor slabs, and include mechanical, electrical, and information systems including SIPRNET rooms. Supporting facilities include site preparation, paving, fencing, and extension of utilities to serve the project.

The physical training portion of the project contains a 1,600-square-foot fitness center outfitted with a full complement of various athletic equipment including treadmills, exercise bikes, steppers, nautilus machines, and free weights. Much of the equipment provided is human-powered, thereby reducing energy costs and eliminating any outside power requirements. The designs employ sound-absorbing building materials throughout and soft, absorbent flooring which reduces user fatigue and protects floor substrates. To enhance the user's experience, cable television is provided as well as appropriate lighting and outside views. Supporting men's and women's showers and locker rooms are also included.

The facility provides space and equipment to maintain vehicles and associated equipment for all levels of maintenance including storage, inspection, lubrication, preventive maintenance, diagnostic analysis, welding, body work, replacement of direct exchange systems, mobile maintenance team support, replacement of major components, repair of emission control system, performance of body and frame repair, sanding, painting, and administration and scheduling of vehicle use and maintenance.

Client
U.S. Army Corps of Engineers,
Louisville District
Room 821
600 Dr. Martin Luther King, Jr. Place
P.O. Box 59
Louisville, KY 40202

Completion Date
Estimated: 2010

Project Costs
$20,145,000 (Est. Construction)
$853,052 (Fee)

Baker's Role
- Design Charrette
- Design/Build RFP Documents
- Site/Civil Engineering
- Landscape Architecture
- Anti-Terrorism and Force Protection
- Planning
- Architecture
- Structural Engineering
- Mechanical Engineering
- Plumbing Engineering
- Fire Protection Engineering
- Electrical Engineering
- Sustainable Design
- Cost Estimating

The facility meets Silver LEED® standards and is ADA compliant. Supporting facilities include utilities, site improvements with area lighting, pavement, walls, curbs, gutters, non-organizational and handicapped accessible parking, landscaping, and supporting military equipment parking. Anti-terrorism and force protection (physical security) requirements are incorporated into the design including installation of blast-proof windows and building setbacks using maximum feasible standoff distance from roads, parking areas, and vehicle unloading areas. Berms, heavy landscaping, and bollards were incorporated to prevent access when standoff distances cannot be maintained. Military equipment parking (MEP) and private owned vehicle

(POV) parking was provided. The RFP development consists of conducting a design charrette, providing a topographical survey and geotechnical investigation, performing a utility survey, developing conceptual site plans, floor plans, and building elevations, developing RFP specifications, preparing DD Form 1354 – Transfer of Real Property, and providing a PACES construction cost estimate. The project employs the client's new directive to allow for commercial type building construction to promote cost efficiency and competition.

Stewart Newburgh Armed Forces Reserve Center

Newburgh, New York

Baker developed Design/Build RFP Documents for an integrated, consolidated, regional 84,000-square-foot training facility, 16,200-square-foot vehicle maintenance shop, and 2,350-square-foot unheated storage building. The center accommodates training and mobilization and provides for the storage, inspection, maintenance, and repair of combat and tactical vehicles and equipment associated with the regional deployment of Army National Guard and Army Reserve units.

The training facility contains a 1,600-square-foot fitness center outfitted with a full complement of various athletic equipment including treadmills, exercise bikes, steppers, nautilus machines, and free weights. Much of the equipment provided is human-powered, thereby reducing energy costs and eliminating any outside power requirements. The designs employ sound-absorbing building materials throughout and soft, absorbent flooring which reduces user fatigue and protects floor substrates. To enhance the user's experience, cable television is provided as well as appropriate lighting and outside views. Supporting men's and women's showers and locker rooms are also included.

The facility provides space and equipment to maintain vehicles and associated equipment for all levels of maintenance including storage, inspection, lubrication, preventive maintenance, diagnostic analysis, welding, body work, replacement of direct exchange systems, mobile maintenance team support, replacement of major components, repair of emission control system, performance of body and frame repair, sanding, painting, and administration and scheduling of vehicle use and maintenance.

The vehicle maintenance facility meets Gold SPiRiT standards and is ADA compliant. Baker prepared the sustainable design scorecard as well as identified additional energy-conserving requirements for implementation by the designer-of-record. Supporting facilities include utilities, site improvements with area lighting, pavement, walls, curbs, gutters, non-organizational and handicapped accessible parking, landscaping, and supporting military equipment parking. Anti-terrorism and force protection (physical security) requirements were incorporated into the design including installation of blast-proof windows and building setbacks using maximum feasible standoff distance from roads, parking areas, and vehicle unloading areas. Berms, heavy landscaping, and bollards were used to prevent access when standoff distances could not be maintained. The RFP development consisted of conducting a design charrette, developing conceptual site plans, floor plans, building elevations, and Structural Interior Design (SID) and Comprehensive Interior Design (CID) based on the initial furniture layouts and record

Client
U.S. Army Corps of Engineers,
Louisville District
Room 821
600 Dr. Martin Luther King, Jr. Place
P.O. Box 59
Louisville, KY 40202

Additional References
ACSIM - Office of Assistant Army Chief of Staff for Installation Management
2511 Jefferson Davis Highway
Room 9621
Arlington, VA 22202-3259

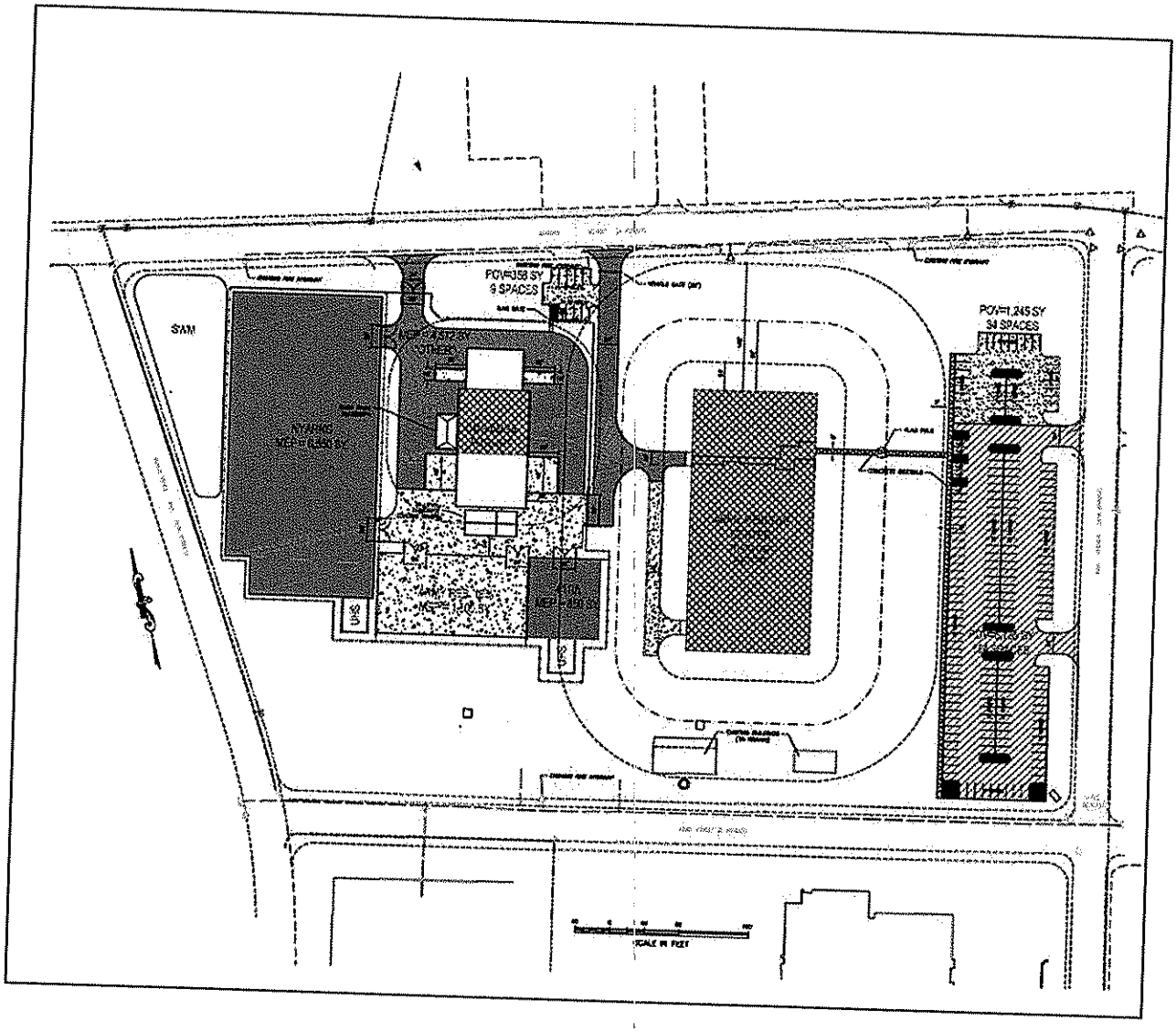
Completion Date
2009

Project Costs
$20,133,522 (Construction)
$371,931 (Fee)

Baker's Role

- Design charrette
- Design/build RFP documents
- Site/civil engineering
- Landscape architecture
- Anti-terrorism and force protection
- Planning
- Architecture
- Structural engineering
- Mechanical engineering
- Plumbing engineering
- Fire protection engineering

requirements, developing RFP specifications, and providing a MCACES construction cost estimate. The district employed the client's new directive to allow for commercial type building construction to promote cost efficiency and competition.



Armed Forces Reserve Center

Scranton, Pennsylvania

Baker developed Design/Build RFP Documents for a new 650-member Armed Forces Reserve Center with Organized Maintenance Shop (OMS) and an Unheated Storage (UHS) building that realigns Army Reserve and National Guard units as directed by BRAC 05. The facility provides administrative, educational, assembly, library, learning center, vault, weapons simulator, and physical fitness areas for eight Army Reserve units and four Pennsylvania Army National Guard units, as well as provides adequate MEP and POV parking.

A 166,000-square-foot training building (AFRC), a 7,300-square-foot multi-use classroom, a 6,400-square-foot Organized Maintenance Shop (OMS), and a 1,700-square-foot unheated storage (UHS) building were included in the RFP package.

The buildings are permanent construction with reinforced concrete foundations, concrete floor slabs, and include mechanical, electrical, and information systems including SIPRNET rooms, interior finishes, window systems, roof decks with 50-year asphalt shingles, and exterior finishes. Supporting facilities include site preparation, paving, fencing, and extension of utilities to serve the project.

The physical training portion of the project contains a 1,600-square-foot fitness center outfitted with a full complement of various athletic equipment including treadmills, exercise bikes, steppers, nautilus machines, and free weights. Much of the equipment provided is human-powered, thereby reducing energy costs and eliminating any outside power requirements. The designs employ sound-absorbing building materials throughout and soft, absorbent flooring which reduces user fatigue and protects floor substrates. To enhance the user's experience, cable television is provided as well as appropriate lighting and outside views. Supporting men's and women's showers and locker rooms are also included. This project includes construction of an outdoor running track around the perimeter of the site. The track provides for interesting views, enhancing the user's experience. The track is constructed of recycled materials requiring very low maintenance.

Client
U.S. Army Corps of Engineers,
Louisville District
Room 821
600 Dr. Martin Luther King, Jr. Place
P.O. Box 59
Louisville, KY 40202

Completion Date
Estimated: 2010

Project Costs
$30,000,000 (Est. Construction)
$682,624 (Fee)

Baker's Role
- Design charrette
- Design/build RFP documents
- Site/civil engineering
- Landscape architecture
- Anti-terrorism and force protection
- Planning
- Architecture
- Structural engineering
- Mechanical engineering
- Plumbing engineering
- Fire protection engineering
- Electrical engineering
- Environmental engineering
- Sustainable design
- Cost estimating

The facility provides space and equipment to maintain vehicles and associated equipment for all levels of maintenance including storage, inspection, lubrication, preventive maintenance, diagnostic analysis, welding, body work, replacement of direct exchange systems, mobile maintenance team support, replacement of major components, repair of emission control system, performance of body and frame repair, sanding, painting, and administration and scheduling of vehicle use and maintenance.

The facility meets Silver LEED® standards and is ADA compliant. Supporting facilities include utilities, site improvements with area lighting, pavement, walls, curbs, gutters, non-organizational and handicapped accessible parking, landscaping, and supporting military equipment parking. Anti-terrorism and force protection (physical

security) requirements were incorporated into the design including installation of blast-proof windows and building setbacks using maximum feasible standoff distance from roads, parking areas, and vehicle unloading areas. Berms, heavy landscaping, and bollards were incorporated to prevent access when standoff distances could not be maintained. Military equipment parking (MEP) and private owned vehicle (POV) parking was provided.

The RFP development consisted of conducting a design charrette, providing a topographical survey and geotechnical investigation, performing a utility survey, providing NEPA / EA documentation, developing conceptual site plans, floor plans, and building elevations, developing RFP specifications, preparing DD Form 1354 – Transfer of Real Property, and providing a PACES construction cost estimate. The district employed the client's new directive to allow for commercial type building construction to promote cost efficiency and competition.

U.S Army Reserve Center

Willow Grove, Pennsylvania

Baker developed Design/Build RFP Documents for a new 800-member U.S. Army Reserve Center (USARC) with Organized Maintenance Shop (OMS) and an Unheated Storage (UHS) building. The USARC provides administrative, educational, assembly, library, learning center, vault, weapons simulator, and physical fitness areas, as well as provides adequate MEP and POV parking.

A 73,281-square-foot USARC training building, a 16,452 -square-foot OMS, and a 5,000-square-foot UHS building were included in the design/build RFP package.

The buildings are permanent construction with reinforced concrete foundations, concrete floor slabs, and include mechanical, electrical, and information systems including SIPRNET rooms, interior finishes, window systems, roof decks with 50-yr. asphalt shingles, and exterior finishes. Supporting facilities include site preparation, paving, fencing, and security systems, and extension of utilities to serve the project. Demolition design for existing buildings was required.

The facility provides space to maintain vehicles and associated equipment for all levels of maintenance including storage, inspection, lubrication, preventive maintenance, diagnostic analysis, welding, repair of emission control system, and administration and scheduling of vehicle use and maintenance.

Client
U.S. Army Corps of Engineers,
Louisville District
Room 821
600 Dr. Martin Luther King, Jr. Place
P.O. Box 59
Louisville, KY 40202

Completion Date
Estimated: 2011

Project Costs
$16,000,000 (Est. Construction)
$619,863 (Fee)

Baker's Role

- Design/Build RFP documents
- New construction
- Administrative offices
- Maintenance shop
- Unheated storage building
- MEP / POV parking areas
- Antiterrorism and force

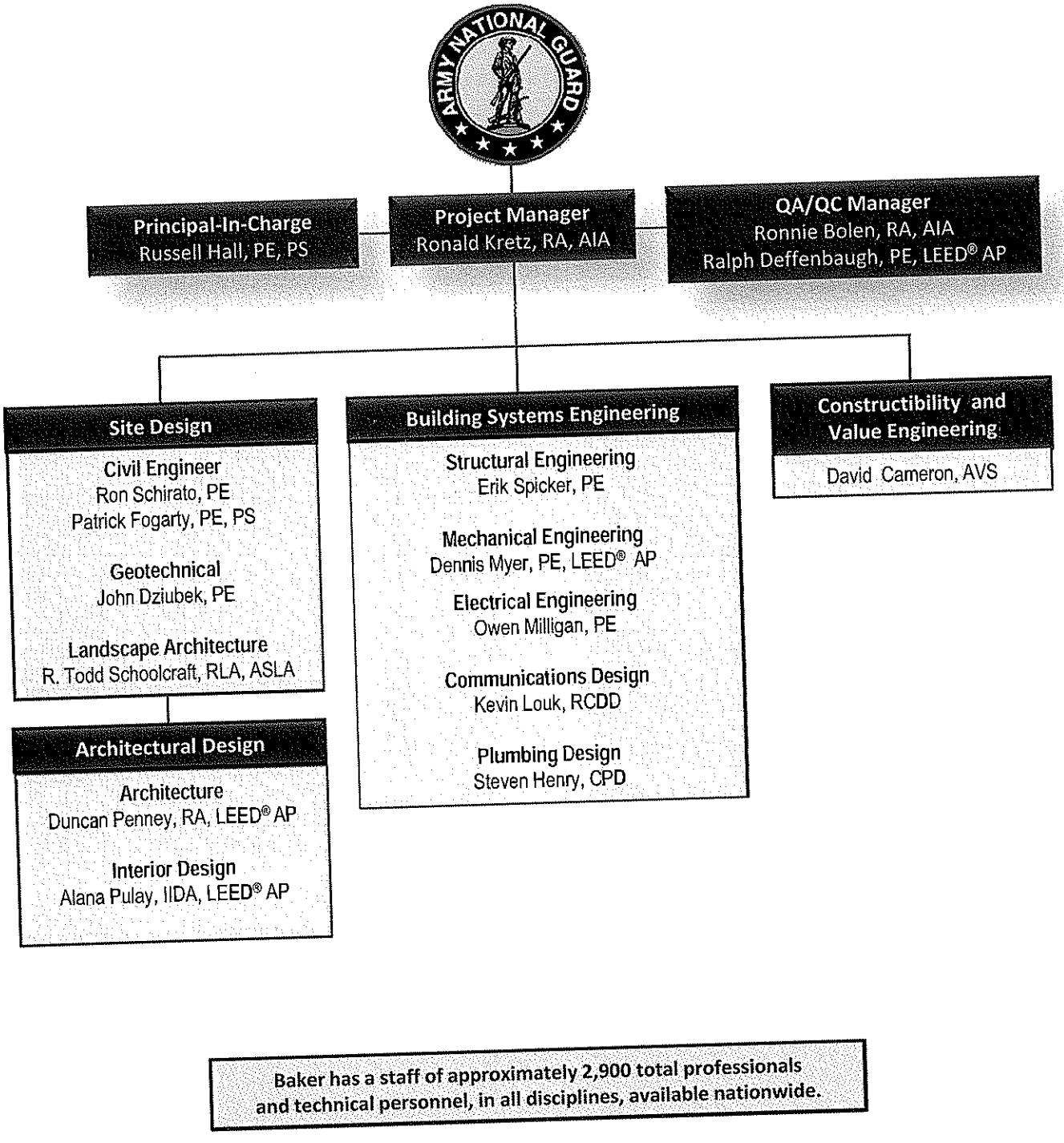
The facility meets Silver LEED® standards and is ADA compliant. Sustainable Design and Development (SDD) and Energy Policy Act of 2005 (EPAct05) features will be provided. Supporting facilities include utilities, site improvements with area lighting, pavement, walks, curbs, gutters, non-organizational and handicapped accessible parking, landscaping, and supporting military equipment parking. Anti-terrorism and force protection (physical security) requirements were incorporated into the design including installation of blast-proof windows and building setbacks using maximum feasible standoff distance from roads, parking areas, and vehicle unloading areas. Berms, heavy landscaping, and bollards were incorporated to prevent access when standoff distances could not be maintained.

The RFP development consisted of conducting a design charrette, providing a topographical survey and geotechnical investigation, performing a utility survey, coordinating the design with NEPA / EA documentation, developing conceptual site plans, floor plans, and building elevations, and providing construction cost estimates using both M-CACES (MII) and PACES for parametric estimates.

Management Organization Chart

Baker

Buckhannon Field Maintenance Shop
Requisition # DEFK10020



Baker has a staff of approximately 2,900 total professionals and technical personnel, in all disciplines, available nationwide.

Russell E. Hall, P.E., P.S.

Principal-In-Charge

Years with Baker: 6

Years with Other Firms: 18

Education

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

Licenses/Certifications

Professional Engineer, West Virginia, 1990

Professional Surveyor, West Virginia, 1996

General Qualifications

Mr. Hall currently serves an Assistant Vice President of Michael Baker Jr., Inc., as well as Office Manager of our Charleston, WV office. He is an experienced transportation engineer who has been involved in numerous design projects in West Virginia for over 22 years. His project management responsibilities involve overseeing staff from project inception through completion, and ensuring that the clients' needs and requirements are met.

He also has over nine years of office management experience. His office management responsibilities include financial oversight and accountability for a staff of over 40 engineers, scientists, and administrative personnel for Baker's Charleston office. His major strengths include organizing and managing a project team, quality control and quality assurance, and problem resolution. He provides overall direction and maintains direct communications with all clients.

Experience

West Virginia Army National Guard - Tag Wing Improvement, Charleston, West Virginia. *State Army National Guard Headquarters.* Principal-In-Charge. Responsible for oversight of Project Management. 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.

On-Call Engineering/Architectural Services, Yeager Airport (CRW), Charleston, West Virginia. *Central West Virginia Regional Airport Authority.* Principal-In-Charge. Responsible for oversight of project finances, schedules and quality control. Baker provided multi-discipline, on-call services to the Central West Virginia Regional Airport Authority (CWVRAA), which owns and operates Yeager Airport (CRW). Baker provided a full range of services to CWVRAA on an "On-Call/As-Needed" basis, including architecture, civil, structural, mechanical, electrical and environmental engineering, general engineering administration, surveying, and construction management.

WV Enhanced Hazard Mitigation Plan, Charleston. *West Virginia Division of Homeland Security and Emergency Management.* Principal-In-Charge. Responsible for oversight of project finances, schedules and quality control. Baker prepared an Enhanced Hazard Mitigation plan for the state of West Virginia to comply with the requirements of the Disaster Mitigation Act of 2000 (DMA 2000) and 44 CFR 201-5.

Blennerhassett Island Bridge, Appalachian Corridor D, Washington County, Ohio and Wood County, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Principal-In-Charge. Responsible for oversight of project finances, schedules and quality control. The 878 foot – 6 inch long

network tied arch was ranked as the longest of its type in the United States and one of the longest in the entire world. Baker provided project management, environmental and location studies, permitting, preliminary and final design as well as construction phase services.

Spruce Mine No. 1 Mountaintop Mining EIS, Logan County, West Virginia. *Arch Coal, Inc.* Principal-In-Charge. Responsible for oversight of Project Management. Spruce Mine No. 1 is the first mountaintop-mining project requiring an Environmental Impact Statement (EIS) by the U.S. Army Corps of Engineers (USACE). Baker was responsible for all aspects of the project, including agency and public scoping, and the production of the Draft EIS. Baker analyzed and assessed data and studies that were completed for and included in the SMCRA mine permit application.

Independence Coal Company-Falcon Surface Mine, Boone County. *Independence Coal Company.* Principal-In-Charge. Responsible for oversight of Project Management. Baker analyzed and assessed data and studies that were completed for and included in SMCRA mine permit application for the Falcon Surface Mine to complete Individual 401 Water Quality Certification applications, Individual 404 Permit applications, and Environmental Information Documents (EID) for each of these two projects for submittal to the U.S. Army Corps of Engineers, Huntington District. In conjunction with the 404 Permit, Baker evaluated the project area and receiving watershed for the development of a Compensatory Mitigation Plan to offset impacts to waters of the U.S.

Central WV Regional Airport Authority-Extend Runway 5-23, Charleston, West Virginia. *Central West Virginia Regional Airport Authority.* Principal-In-Charge. Responsible for oversight of Project Management. Baker performed complete planning, design, and construction management services for the 500-foot extension of Runway 5-23 for the Central West Virginia Regional Airport Authority at Yeager Airport in Charleston, West Virginia. The work was coordinated with the contractor for the grading operations for the ongoing Runway 23 Safety Area project, and FAA Airways Facilities for retrofit of the ALSF 1 approach light system. Nighttime closure of the runway was required for construction with no impacts to air service.

NPDES Permit Review, Boone County, West Virginia. *Consol, Inc.* Principal-In-Charge. Responsible for oversight of project finances, schedules and quality control. Baker developed a geologic model in SurvCADD, utilizing the core hole data provided by the client for the approximately 11,500 acre Miller Creek Project Area in Mingo County and completed a reserve analysis for the entire area. Ina addition, Baker developed a general mine plan and layout for a variety of permitting options for the client and subsequently completed an overall AOC+ spoil optimization for the initial permit area to be developed by the client.

Ronald W. Kretz, R.A., A.I.A.

Project Manager

Years with Baker: 11

Years with Other Firms: 9

Education
B.Arch., 1990, Architecture,
University of Cincinnati

Licenses/Certifications
Registered Architect:
Pennsylvania, 1993
Colorado, 1997

General Qualifications

Mr. Kretz is a registered architect with over 20 years of experience as project manager, designer, and principal. As Operations Manager of Baker's North Region Facilities Group, he has direct management responsibility over all architectural and building engineering personnel, project designs, and office functions, as well as serving as project manager for design projects. Mr. Kretz's project experiences includes various building types for military, educational, institutional, commercial, health care, aviation, transit, and housing clients in public and private sector facilities. Building types include readiness training centers and classrooms with sophisticated telecommunication systems, fitness centers, airport facilities, vehicle maintenance and intermodal transit facilities, warehouses, parking garages, and rail stations. Mr. Kretz is well versed in a variety of project delivery systems including fast-tracked designs, traditional design/bid/build, design/build RFP documents, design/build delivery as a member of the contractor's team, bridging documents, and site adapt designs.

Experience

Armed Forces Reserve Center, Fort Allen, Puerto Rico. *U.S. Army Corps of Engineers, Louisville District.* QA/QC. Provided QA/QC oversight on the project. The Korte-Baker design/build team is constructing a new 126-member Armed Forces Reserve Center (AFRC) for the United States Army Reserve (USAR) on approximately 8.5-acres of Army National Guard property within Fort Allen, near Ponce, Puerto Rico. The project will provide a critical training center, administration offices, education facilities, assembly area, library, learning center, arms vault, physical fitness areas, and storage facility for USAR units, and a PRARNG unit, in the Ponce area. Primary facilities will include a 49,320-square-foot AFRC and a 150-square-foot unheated storage building, designed for Silver LEED® certification. Baker is providing architectural and interior design; structural, mechanical, electrical, plumbing, and communications design; permitting; site survey; and geotechnical engineering.

Armed Forces Reserve Center, McAlester, Oklahoma. *U.S. Army Corps of Engineers, Louisville District.* QA/QC. Provided QA/QC oversight on the project. The Korte-Baker design/build team is constructing a new 200 member Armed Forces Reserve Center (AFRC) for the United States Army Reserve (USAR) and the Oklahoma National Guard (OK ARNG) on approximately 15.5-acre site at the McAlester Army Ammunition Plant outside of McAlester, Oklahoma. The complex consists of an Armed Forces Reserve Center (Training Center), a Vehicle Maintenance Shop (VMS) that is a combined organizational maintenance shop and Field Maintenance Shop, and an Unheated Storage Building (UHS). The facility was designed to achieve a Silver LEED® sustainable rating; sustainable features include highly-efficient mechanical systems, recycled content materials, low-VOC materials, and efficient site usage.

A/E ID/IQ Contract for Design of Army Reserve and Military Projects, Nationwide. *U.S. Army Corps of Engineers, Louisville District.* Department Manager. Responsible as facility design manager, overseeing all facility-related designs. Baker performed work under a five year, $20 million Indefinite Delivery, Indefinite Quantity A/E Services Contract for the Louisville District of the U.S. Army Corps of Engineers. Under this

contract, Baker provided full planning, design, and construction phase services for U.S. Army Reserve Facilities and Military Projects Nationwide.

Defense Medical Logistics Center, Fort Detrick, Maryland. *U.S. Army Corps of Engineers, Baltimore District.* QA/QC. Provided design oversight and supervision to the architectural team. 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.* Architect. Responsibilities included architectural design and detailing assistance for the final construction documents. 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 new structures consist of structural steel frames, masonry veneer exterior walls, and standing seam metal roofs. The OMS/AMSA houses office and administrative areas, tool and parts storage, 10 work bays, one welding bay, controlled and flammable storage, wash bay, and building support functions. One drive-through bay is serviced by an overhead traveling crane. The Training Center houses offices and administrative spaces, caged unit storage, classrooms, library, learning center, weapons simulation room, physical readiness area, engagement skills trainer, a COMSEC training room, an arms vault and armorer's room, an assembly hall, kitchen, and building support functions. 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.

U.S. Armed Forces Reserve Center, Rutland, Vermont. *U.S. Army Corps of Engineers, Louisville District.* Department Manager. Responsible as facility design manager, overseeing all facility-related designs. Baker developed Design/Build RFP Documents for a new 600-member Armed Forces Reserve Center meeting Silver LEED® standards. A 97,634-square-foot training building (AFRC), a 14,600-square-foot multi-use classroom, a 7,302-square-foot Organized Maintenance Shop (OMS), and a 3,113-square-foot unheated storage (UHS) building is included in the RFP package. The center accommodates training and mobilization, and provides for the storage, inspection, maintenance, and repair of combat and tactical vehicles and equipment associated with the regional deployment of Vermont Army National Guard and Army Reserve units. The RFP development consists of conducting a design charrette, providing a topographical survey and geotechnical investigation, performing a utility survey, developing conceptual site plans, floor plans, and building elevations, developing RFP specifications, preparing DD Form 1354 – Transfer of Real Property, and providing a PACES construction cost estimate.

U.S. Armed Forces Reserve Center, Bristol, Pennsylvania. *U.S. Army Corps of Engineers, Louisville District.* Department Manager. Responsible as facility design manager, overseeing all facility-related designs. Baker developed Design/Build RFP Documents for a new 600-member Armed Forces Reserve Center with Organized Maintenance Shop (OMS) and an Unheated Storage (UHS) building that realigns Army Reserve and Marine Reserve units as directed by BRAC 05. The facility will provide administrative, educational, assembly, library, learning center, vault, weapons simulator, and physical fitness areas for eight Army Reserve units and three Marine units, as well as provide adequate parking for all military and privately-owned vehicles. A 94,500-square-foot training building (AFRC), an 8,900-square-foot Maintenance Shop (OMS), and a 2,900-square-foot unheated storage (UHS) building was included in the RFP package. The facility was designed to meet Silver LEED® standards and be ADA compliant.

Ronnie Lee Bolen, R.A., AIA

Quality Control

Years with Baker: 2

Years with Other Firms: 36

Education
B.S., 1980, Architectural Design, West Virginia University

Licenses/Certifications
Registered Architect, West Virginia, 1999

General Qualifications

Mr. Bolen brings over 35 years of design and project coordination experience to the project. While at Baker, Mr. Bolen has focused most of his time on design and coordination with the client while maintaining a close relationship with the design team, from the early planning stages to the construction implementation. Increasingly, Mr. Bolen's facilities have become the result of collaborative problem solving with other design professionals and our clients.

Experience

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 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.

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. 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 State Capitol Restroom Renovations. *State of WV General Services Division.* Architect. Responsibilities included are Architectural coordination with the Architectural team members (RMJM) and the Mechanical /Electrical staff during design and construction, cost estimating project, Architectural design for rehabilitating the existing historical West Virginia State Capitol Restrooms. 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.

Little Kanawha Bus Facility, Calhoun County, West Virginia. *WV Division of Public Transit.* Architect. Responsibilities include providing a complete design and detailed construction administration services include the construction of a pre-engineered metal and brick construction, sited on the available property allowing for future expansion needs. 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.

Lost Creek Train Depot Rehabilitation, Lost Creek, West Virginia. *Town of Lost Creek.* Architect. Responsibilities included are Architectural support during construction, cost estimating for future phases of the overall project, Architectural design for rehabilitating the existing Historical Train Depot. 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.

West Virginia Capitol Campus Master Plan. *State of WV General Services Division.* Architect. Responsibilities includes working in conjunction with the owner and a team of specialized sub-consultants, Ron is currently providing elements including Master Planning Programming, Architectural / Review, Document Management, Project Scheduling, Cost Estimating, Facilities Planning, Sub-consultant Management and Client Coordination.

Ruby Memorial Hospital, Morgantown, West Virginia. *West Virginia University.* Mr. Bolen provided Project Job Captain & CADD tech services through Design Development and Contract Document. Design for an addition renovation to an existing facility for the ICU department with the University Hospital.

WVU Indoor Practice Facility, Morgantown, West Virginia. *West Virginia University.* Mr. Bolen provided Project Job Captain & CADD tech services through the Programming and Pre Design phase for an addition Design Build project to an provide a new indoor sports practice facility for the Athletic Department with the University.

WVU Natatorium Facility, Morgantown, West Virginia. *West Virginia University.* Mr. Bolen provided Project Job Captain & CADD tech services through the Programming and Pre Design phase for an addition Design Build project to provide an addition to the existing natatorium facility for the Athletic Department with the University.

Ralph T. Deffenbaugh, P.E., LEED AP

Quality Control

Years with Baker: 4

Years with Other Firms: 26

Education

B.A.E., 1980, Architectural Engineering (Structural Design Option), The Pennsylvania State University

Licenses/Certifications

Professional Engineer:
Pennsylvania, 1991
Louisiana, 2009
Ohio, 2004
West Virginia, 2004
Massachusetts, 1992
Virginia, 1991
Kentucky, 2004

NCEES Certified, 1986

LEED Accredited Professional, 2007

General Qualifications

Mr. Deffenbaugh, Director of Facilities Engineering for Baker, provides leadership for project quality and interdisciplinary coordination for the engineering group. In his wide-ranging experience, he has provided oversight of the engineering efforts focusing on integration of systems, development of energy reduction strategies, and detailed quality assurance reviews of various types of facilities for military, government, commercial, public, and private clients. His experience includes serving as project manager, lead structural engineer, resident structural engineer, or project/design engineer for various types of facilities, including tactical equipment maintenance facilities, vehicle maintenance facilities, barracks, military facilities, administrative/office buildings, bus maintenance facilities, manufacturing plants, fabrication facilities, utility buildings, clean rooms, administrative facilities, transit stations and park-n-rides, water storage, and water/wastewater treatment facilities. In 2007, Mr. Deffenbaugh received his LEED® accreditation from the U.S. Green Building Council.

Experience

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.* QA/QC. Responsibilities included coordinating the quality assurance reviews for architectural, mechanical, and electrical drawings. 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.

Design/Build U.S. Army Reserve Center, Fort Lewis, Washington. *U.S. Army Corps of Engineers, Louisville District.* QA/QC. Responsible for the technical quality review of the early site and electrical packages, and coordination with the fire protection engineering subconsultant. Baker, partnered with a consultant is constructing a new 1,000-member 119,425-square-foot U.S. Army Reserve Center (USARC) on a 17-acre site. The USARC is comprised of a Training Center, Unit Storage Building, and an Organizational Maintenance Shop/Area Maintenance Support Activity (OMS/AMSA). Functional spaces were provided for classrooms, offices spaces, assembly hall, kitchen, lockers, toilets, janitor rooms, shower rooms, library and reading room, learning center, network operations, telephone room, IT rooms, electrical rooms, mechanical rooms, mail room, weapons simulator and control rooms, maintenance bays, battery room, OMS and AMSA office, tools and parts storage, battery room, sprinkler room, and unit storage armory and vault. The facility was designed to meet the Gold SPiRiT sustainability level.

Armed Forces Reserve Center, Grand Prairie, Texas. *U.S. Army Corps of Engineers, Louisville District.* Technical Quality Manager. Responsibilities involved coordinating subconsultant scopes and fees and negotiating their contracts, monitoring and maintaining the project design schedule with the contractor, and packaging of construction documents. Baker and another consultant design/build team are constructing a new facility to serve as an Armed Forces Reserve Center (AFRC) for units of the U.S. Army Reserve (USAR) and Texas Army National Guard. The USAR uses the AFRC for administrative activities, to plan and support operations, and to train unit personnel in their engineering specialties. Four separate buildings are being constructed on various sites on the Grand Prairie Reserve Complex, including a new 78,600-square-foot Administration building, 30,070-square-foot Storage building, 30,450-square-foot Facility Maintenance Storage (FMS) building, and a 4,900-square-foot Unheated Storage building.

Defense Medical Logistics Center, Fort Detrick, Maryland. *U.S. Army Corps of Engineers, Baltimore District.* QA/QC. Responsibilities included developing tools to coordinate designs using enhanced written descriptions of scope and design decisions, and using CADD coordinated drawings. 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.

Design/Build SATOC for Military Facilities in the Southwest Region, Various Locations in Southwestern U.S., AR, AZ, CA, LA, NM, NV, OK, TX. *U.S. Army Corps of Engineers, Tulsa District.* Technical Quality Manager. Responsibilities involved coordinating subconsultant scopes and fees, monitoring and maintaining the project design schedule with the contractor, and packaging of construction documents for the TEMF projects at Fort Bliss. Projects constructed under this contract include Brigade Combat Team (BCT) Tactical Equipment Maintenance Facilities (TEMF). TEMFs provide facilities for the purpose of maintaining and repairing vehicles, complete with equipment and parts storage, and administrative offices. Task orders awarded to date include the following: Two TEMFs at Fort Bliss in El Paso, Texas to be shared by five Battalions and one Company; and a Unit Operations Facilities consisting of a TEMF and an Organizational (Deployment) Storage facility, at Fort Bliss in El Paso, Texas. Facility designs are required to meet or exceed a Silver LEED® certification.

U.S. Armed Forces Reserve Center, Rutland, Vermont. *U.S. Army Corps of Engineers, Louisville District.* QA/QC. Responsibilities included quality assurance reviews for civil, structural, architectural, mechanical, electrical drawings and specifications. Baker developed Design/Build RFP Documents for a new 600-member Armed Forces Reserve Center meeting Silver LEED® standards. A 97,634-square-foot training building (AFRC), a 14,600-square-foot multi-use classroom, a 7,302-square-foot Organized Maintenance Shop (OMS), and a 3,113-square-foot unheated storage (UHS) building is included in the RFP package. The center accommodates training and mobilization, and provides for the storage, inspection, maintenance, and repair of combat and tactical vehicles and equipment associated with the regional deployment of Vermont Army National Guard and Army Reserve units. The RFP development consists of conducting a design charrette, providing a topographical survey and geotechnical investigation, performing a utility survey, developing conceptual site plans, floor plans, and building elevations, developing RFP specifications, preparing DD Form 1354 – Transfer of Real Property, and providing a PACES construction cost estimate.

Ronald M. Schirato, P.E., LEED® AP

Civil Engineer

Years with Baker: 6

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, 2002
New York, 2009
Oregon, 2008
Oklahoma, 2008

NCEES Certified

NCI Charrette System Certificate

LEED Accredited Professional, 2009

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.

Experience

Design/Build AFQ/RFP Development for Statewide Construction Program, PAARNG Stryker Brigade Combat Team, Statewide, Pennsylvania. *US Property and Fiscal Office for Pennsylvania.* Civil Engineer. Responsibilities included preparing of the civil engineering component of the design-build Request for Proposal (RFP), participating in multi-day design Charrette meetings, processing plans through the local municipality, attending public hearings, utility coordination, site layout and parking geometrics, grading, earthwork calculations, and supervising the erosion and sediment pollution control design, stormwater management design, environmental permitting and landscaping design. Also responsible for interpreting and applying current Department of Defense Anti-Terrorism Standards for Buildings into site layout and building locations. Managed site surveying and geotechnical services required for all projects. Baker provided services under numerous National Guard Bureau IDIQ contracts to support the Pennsylvania Army National Guard (PAARNG) in implementing a $167,000,000 statewide construction program for the Stryker Brigade Combat Team conversion of numerous PAARNG facilities.

Design/Build SATOC for Military Facilities in the Southwest Region, Various Locations in Southwestern U.S., AR, AZ, CA, LA, NM, NV, OK, TX. *U.S. Army Corps of Engineers, Tulsa District.* Civil Engineer. As Civil Engineer-of-Record 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, geometric site layout, utility infrastructure design, erosion and sediment control design, stormwater pollution prevention plan development and site grading. Participated in project design review meetings. Responsible for managing geotechnical and surveying subconsultants. Projects constructed under this contract include Brigade Combat Team (BCT) Tactical Equipment Maintenance Facilities (TEMF). TEMFs provide facilities for the purpose of maintaining and repairing vehicles, complete with equipment and parts storage, and administrative offices. Task orders awarded to date include the following: Two TEMFs at Fort Bliss in El Paso, Texas to be shared by five Battalions and one Company; and a Unit Operations Facilities consisting of a TEMF and an Organizational

(Deployment) Storage facility, at Fort Bliss in El Paso, Texas. Facility designs are required to meet or exceed a Silver LEED® certification.

A/E ID/IQ Contract for Design of Army Reserve and Military Projects, Nationwide. *U.S. Army Corps of Engineers, Louisville District.* Civil Engineer. Civil engineer of record on several of the task orders issued under this IDIQ. Provided civil engineering support by preparing conceptual site layouts, participating in project design Charrettes which led to the development of plans and specifications for construction. Charrette phase work included a preliminary site layouts developed in accordance with current Department of Defense Anti-Terrorism/Force Protection Measures for Buildings, grading and engineering design analyses. Final design included civil engineering construction drawings and specifications for the agreed to layouts. 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 performed work under a five year, $20 million Indefinite Delivery, Indefinite Quantity A/E Services Contract for the Louisville District of the U.S. Army Corps of Engineers. Baker provided full planning, design, and construction phase services for U.S. Army Reserve Facilities and Military Projects Nationwide.

Armed Forces Reserve Center, Fort Allen, Puerto Rico. *U.S. Army Corps of Engineers, Louisville District.* Project Manager. Performed project management duties over a multi-discipline design/build project team constructing a new 126-member Armed Forces Reserve Center for the United States Army Reserve and Puerto Rico Army National Guard. Responsible for project design schedule, budget and quality control. The Korte-Baker design/build team is constructing a new 126-member Armed Forces Reserve Center (AFRC) for the United States Army Reserve (USAR) on approximately 8.5-acres of Army National Guard property within Fort Allen, near Ponce, Puerto Rico. The project will provide a critical training center, administration offices, education facilities, assembly area, library, learning center, arms vault, physical fitness areas, and storage facility for USAR units, and a PRARNG unit, in the Ponce area. Primary facilities will include a 49,320-square-foot AFRC and a 150-square-foot unheated storage building, designed for Silver LEED® certification. Baker is providing architectural and interior design; structural, mechanical, electrical, plumbing, and communications design; permitting; site survey; and geotechnical engineering.

Armed Forces Reserve Center, McAlester, Oklahoma. *U.S. Army Corps of Engineers, Louisville District.* Civil Engineer. Provided civil engineering support and expertise to project staff. Responsible for Independent Technical Review of civil engineering design. The Korte-Baker design/build team is constructing a new 200 member Armed Forces Reserve Center (AFRC) for the United States Army Reserve (USAR) and the Oklahoma National Guard (OK ARNG) on approximately 15.5-acre site at the McAlester Army Ammunition Plant outside of McAlester, Oklahoma. The complex consists of an Armed Forces Reserve Center (Training Center), a Vehicle Maintenance Shop (VMS) that is a combined organizational maintenance shop and Field Maintenance Shop, and an Unheated Storage Building (UHS). The facility was designed to achieve a Silver LEED® sustainable rating; sustainable features include highly-efficient mechanical systems, recycled content materials, low-VOC materials, and efficient site usage.

Armed Forces Reserve Center, Grand Prairie, Texas. *U.S. Army Corps of Engineers, Louisville District.* Civil Engineer. Responsible for managing civil engineering, surveying and geotechnical subconsultants for the 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. Performed QA/QC reviews of subconsultant designs after charrette phase. Four separate buildings are being constructed on various sites on the Grand Prairie Reserve Complex, including a new 78,600-square-foot Administration building, 30,070-square-foot Storage building, 30,450-square-foot Facility Maintenance Storage (FMS) building, and a 4,900-square-foot Unheated Storage building.

Patrick W. Fogarty, P.E., P.S.

Project Manager

General Qualifications

Mr. Fogarty is an asset to the Baker team with over 24 years of project design and management experience. He is responsible for technical and management aspects of civil design and surveying projects within the 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 retail/commercial site preparation, airports, streets/highways, bridges, parking lots, buildings, 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.

Experience

West Virginia Army National Guard - Tag Wing Improvement, Charleston, West Virginia. *State Army National Guard Headquarters.* Project Manager. Engineer of Record responsible for the coordination of all activities. 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.

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 (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.

Years with Baker: 5

Years with Other Firms: 19

Education

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

Diploma, 1993, Surveying and Mapping, International Correspondence Schools

Coursework, 0, Business Administration, Heriot-Watt University, Edinburgh College of Art

Licenses/Certifications

Professional Engineer:
Civil/Structural, West Virginia, 1990
Kentucky, 2000
Virginia, 2002
Pennsylvania, 2003
Ohio, 1996
North Carolina, 2008

Professional Surveyor:
West Virginia, 1993
Kentucky, 2001
Ohio, 1996

Construction Documents Technologist, 1996

FAA, Eastern Region Laboratory Procedures Manual Certificate (P-401), 1992

Asphalt Paving Technician, West Virginia, 1991

Concrete Technician, West Virginia, 1991

Soils Compaction, West Virginia, 1991

Aggregate Sampling Inspector, West Virginia, 1991

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 State Capitol Restroom Renovations. *State of WV General Services Division.* Project Manager. Responsible for the overall management of the project including the coordination of the subconsultant. 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.

130Airlift Wing West Virginia Air National Guard, Various Projects. *Yeager Airport, Charleston, West Virginia.* Field Engineer/Staff Engineer/Project Manager/Lead Designer. Provided planning, design, and construction administration services at this facility on numerous projects including: As a Field Engineer, provided full construction administration services to include inspection, quantity determination, specification interpretation, and the coordination of all testing for the 15,000 cy PCC extension of the aircraft parking apron. As a Staff Engineer, provided surveying and design services to include site, structural steel and concrete design, coordination with Architectural and MEP consultants and scheduling and budgeting for the 3 story addition to the Squadron Operations Facility. As a Project Manager and Lead Designer, provided complete services toward the development of construction plans and specifications for the 50 acre site preparation element of Project 2000 (the relocation of all major base facilities from runway elevation to the former Coonskin Driving Range).

Drainage Improvements and Reclamation Measure Design for Four Abandoned Mine Sites, Kanawha County, West Virginia. *WVDEP - Office of AML&R.* Project Manager. Responsible for the management and coordination of all activities. Baker is providing surveying and mapping, field investigation, subsurface investigation, water testing and sampling, and conceptual, preliminary and final design for the reclamation of four abandoned mine sites that are affected by uncontrolled drainage, debris, and hazards from open portals. Baker is also providing bid phase and construction phase support for the remedial measures.

On-Call Engineering/Architectural Services, Yeager Airport (CRW), Charleston, West Virginia. *Central West Virginia Regional Airport Authority.* Project Manager. Responsible for management planning and lead design for miscellaneous assignments. Additionally, provided engineering consultation on a current construction project as needed. Baker provided multi-discipline, on-call services to the Central West Virginia Regional Airport Authority (CWVRAA), which owns and operates Yeager Airport (CRW). Baker provided a full range of services to CWVRAA on an "On-Call/As-Needed" basis, including architecture, civil, structural, mechanical, electrical and environmental engineering, general engineering administration, surveying, and construction management.

John A. Dziubek, P.E.

Geotechnical Engineer

Years with Baker: 27

Years with Other Firms: 17

Education

M.S.C.E., 1966, Civil Engineering, Purdue University

B.S.C.E., 1964, Civil Engineering, University of Pittsburgh

Licenses/Certifications

Professional Engineer:
West Virginia, 1990
Pennsylvania, 1969
Ohio, 1991

General Qualifications

Mr. Dziubek has performed and managed geotechnical engineering and design projects for more than 40 years. The projects range from subsurface investigations, including building, industrial, and heavy and highway foundations, and site closures at industrial facilities, to remedial design and remedial action at Superfund sites. He also has managed public and private sector projects for the U.S. Army Corps of Engineers, U.S. Navy, state departments of transportation, and major industrial clients. Larger projects range from $1,000,000 to $10,000,000 and have required civil, geotechnical, mining and environmental engineering expertise.

Experience

U.S. Army Reserve Center OMS/AMSA/STRG, Greenville, South Carolina. *U.S. Army Corps of Engineers, Louisville District.* Task Manager. Responsible for management of the geotechnical investigation for assembly, storage and maintenance units. Seven test borings were drilled and laboratory testing was performed to evaluate spread foundations and subgrade conditions for entry roads and parking areas. Recommendations were made for stabilizing soft clays in subgrade. 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 new structures consist of structural steel frames, masonry veneer exterior walls, and standing seam metal roofs. The OMS/AMSA houses office and administrative areas, tool and parts storage, 10 work bays, one welding bay, controlled and flammable storage, wash bay, and building support functions. One drive-through bay is serviced by an overhead traveling crane. The Training Center houses offices and administrative spaces, caged unit storage, classrooms, library, learning center, weapons simulation room, physical readiness area, engagement skills trainer, a COMSEC training room, an arms vault and armorer's room, an assembly hall, kitchen, and building support functions. 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.

Design/Build AFQ/RFP Development for Statewide Construetion Program, PAARNG Stryker Brigade Combat Team, Statewide, Pennsylvania. *US Property and Fiscal Office for Pennsylvania.* Geotechnical Engineer. Provided geotechnical management and quality assurance reviews for geotechnical investigation. Developed test boring plan and lab testing program. Provided sufficient information for the design-build contractor to develop additional subsurface investigation, geotechnical recommendations for shallow and deep foundations, earthwork, pavement design, and storm water management. Baker provided services under numerous National Guard Bureau IDIQ contracts to support the Pennsylvania Army National Guard (PAARNG) in implementing a $167,000,000 statewide construction program for the Stryker Brigade Combat Team conversion of numerous PAARNG facilities. The program included the design of new soldier Readiness Centers (RC) and vehicle Field Maintenance Shops (FMS), as well as facility additions. Baker performed all aspects of design/build RFP implementation, from providing significant architectural, structural, geotechnical, civil engineering, and other technical input for RFP Project Definition Documents, to developing the application form used to evaluate potential design/build contractor teams, to providing client support during the actual design/build team selection process. The sustainable design goal is for each finished

facility to qualify for either a Gold SPiRiT or Silver LEED® -Certified rating. Baker's task orders include the following sites: Erie – a new Readiness Center and a new Field Maintenance Shop; Philadelphia – a new Readiness Center and Field Maintenance Shop; Elizabethtown – a new Readiness Center and a new Field Maintenance Shop; and Bradford and Huntingdon – new Readiness Centers. Additionally, Baker has developed Design/Build RFP documents for the additions and alterations to Readiness Centers in Lewistown, Punxsutawney, Butler, Hanover, Lebanon, Huntingdon, and Hollidaysburg.

Louisville District IDIQ for Various Civil and Military Projects, Great Lakes and Ohio River Division, Louisville, Kentucky. *U.S. Army Corps of Engineers, Louisville District.* Task Manager. Responsible for the management of the geotechnical investigation for assembly, storage and maintenance units of the U.S. Army Reserve Center OMS/AMSA/STRG. Seven test borings were drilled and laboratory testing was performed to evaluate spread foundations and subgrade conditions for entry roads and parking areas. Recommendations were made for stabilizing soft clays in subgrade. A variety of planning and design services were provided to the U.S. Army Corps of Engineers, Louisville District under an Indefinite Delivery Contract. Delivery Orders included master plan updates, capital investment strategies, installation design guides, and facility designs for an Army Reserve Center, Battalion Operations Facility, and an Army Base High School.

Armed Forces Reserve Center, Bristol, Pennsylvania. *U.S. Army Corps of Engineers, Louisville District.* Geotechnical Engineer. Responsible for providing internal quality reviews of geotechnical investigations. Baker developed Design/Build RFP documents for a new 600 member Armed Forces Reserve Center with Organized Maintenance Shop and an Unheated Storage building that realigns Army Reserve and Marine Reserve units as directed by BRAC 05.

Readiness Center for PAARNG Stryker Brigade Combat Team, Willow Grove Joint Forces Reserve Base, Horsham Township, Pennsylvania. *U.S. Property and Fiscal Office for Pennsylvania.* Geotechnical Engineer. Responsible for providing internal quality reviews of geotechnical investigations. Baker developed Design/Build RFP documents for a new $10.3M, 48,436-SF Readiness Center to achieve a LEED®-Certified rating, while recognizing a Silver certified rating objective.

Two Tactical Equipment Maintenance Facilities, Fort Bliss, El Paso, Texas. *U.S. Army Corps of Engineers, Tulsa District.* Geotechnical Engineer. Provided geotechnical review services. Design/build delivery of two TEMFs to be shared by five Battalions and one Company, an 8,000-SF distribution company storage facility, a 1,620-SF facility for oil storage, and a 1,620-SF building for hazardous materials storage. Facility designs are required to meet or exceed a Silver LEED® certification.

A/E Services Contract for the Pennsylvania National Guard, 171st Air Refueling Wing, Pittsburgh International Airport (PIT), Coraopolis, Pennsylvania. *Pennsylvania Depart. of Military and Veterans.* Geotechnical Engineer. Responsible for contracting and supervising a test boring and laboratory testing program and provided foundation recommendations for three structures. For the Readiness Center building foundations, spread footings on existing compacted fill were the most suitable foundation type. For the Base Marquee structure, recommendations for large area spread footings and drilled shafts into sandstone bedrock were given. Provided allowable bearing pressure and soil unit weight values for the footing alternative and skin friction and lateral capacity parameters for the soil and sandstone bedrock for the drilled shafts. For the West Apron lighting project, foundation parameters were recommended for drilled shafts supporting the new lighting poles. Task orders contracted under this Indefinite Delivery/Indefinite Quantity (IDIQ) Contract include: a 129,634-square-foot Combined Support Maintenance Shop; a 3,000-gross-square-foot, $920,000 Crew Readiness Center; a $200,000 Base Marquee; a $405,000 upgrade to the West Apron Lighting for the Pennsylvania Air National Guard; a Deicing Collection Study for the 171st ARW; and Phase One services in support of the conversion of the Pennsylvania Army National Guard's 56th Brigade to a Stryker Brigade Combat Team (SBCT) at various locations throughout the state.

R. Todd Schoolcraft, R.L.A., A.S.L.A.

Landscape Architecture

Years with Baker: 3

Years with Other Firms: 16

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

Licenses/Certifications
Registered Landscape Architect:
West Virginia, 1995
North Carolina, 2008
Ohio, 2002

General Qualifications

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, and residential subdivision layout. 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.

Experience

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).

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.

Alloy Armory Berm Repair, West Virginia Army National Guard, Alloy, West Virginia. *State of West Virginia, Division of Engineering and Facilities.* Project Manager. Responsible for site-civil design and document quality oversight. The existing facility had been home to various armored cavalry units of the West

Virginia Army National Guard (WVARNG) over the years, and the armory and motorpool was situated directly in front and adjacent to a large stream susceptible to high-water events. During a recent flood event, the berm protecting the facility was severely damaged. A new berm was designed with gabion basket reinforcing, and a new concrete-lined trapezoidal channel was proposed to safely redirect the stream flow away from the armory and motorpool.

Parking Lot Expansion and ADA Accessibility Upgrade, Fixed Wing Army Aviation Training Site (FWAATS), Benedum Airport, Bridgeport, West Virginia. *State of West Virginia, Division of Engineering and Facilities.* Project Manager. Responsible for site-civil design, construction document preparation and construction administration. Conceptual and final detailed design services were provided to expand the main parking area, maintain Section 504 ADA compliance, and improve site drainage and landscaping. Recommendations for improvements to the traffic flow at the loading dock and plans for pavement striping were also developed.

Robert E. Rooney Marshalling Yard and Final Rinse Facility, Port Ash Shuaybah, Kuwait *US Army Corp of Engineers.* Project Manager. Responsibilities included leading a design team with the 111Engineer Group, West Virginia Army National Guard (WVARNG) in the development a master plan, final construction documents, bidding assistance, and construction oversight. This project involved the development of a Sea Port of Embarkation (SPOE) Sterile Storage Area and Final Rinse Facility in the Persian Gulf area for use by Coalition Forces during Operation Iraqi Freedom. The improvements proposed included installation and construction of a rinse facility capable of serving all categories of military vehicles, trailers, towed equipment and storage containers for final rinse before being loaded onto transport vessels. The area also included sterile storage areas for redeployment and temporary storage areas for deployment operations. The project was taken on as a joint effort with the Army Corp of Engineers/GRE project. The project mission included the design, planning and coordination with local contractors and the USACE in the construction of the two-acre concrete final rinse facility, 26-acre asphalt sterile storage area, and 47-acre marshalling area in three separate phases. Construction cost: $5.54 Million U.S. dollars.

Building 5 Command Group Renovations, Zone II, Camp Arifjan, Kuwait. *Third Army, United States Army Central (USARCENT), Coalition Forces Land Component Command (CFLCC).* Project Manager. Project responsibilities included site surveying and base map preparation, site civil and architectural plan preparation, detailing, bidding, and construction administration for renovations required by CFLCC C-7 for the Command Group move from Camp Doha, Kuwait, to Camp Arifjan, Kuwait. Elements of the project included second floor 11-foot expansions on the north and south wings with structural layout, two new stairwells, expansion of existing office space, installation of men's and lady's restrooms, renovations to electrical, communications, and fire detection and suppression systems, extension of water service, sewer line design, and other amenities as needed. Periodic construction administration services were included during construction. Construction cost: $267,000.00 U.S. dollars.

Port Shuaybah Pier Assessment, Port Ash Shuaybah, Kuwait. *Third Army, United States Army Central (USARCENT), Coalition Forces Land Component Command (CFLCC).* Project Manager. While on deployment in the Middle East with the Design Section of the 111Engineer Group, West Virginia Army National Guard (WVARNG) was tasked to perform a conditional survey of the existing pier area at the Port of Shuaybah, on the Persian Gulf, Kuwait. The facility had been used by the U.S. Military since November 2002. The 143 TRANSCOM, in charge of deployment and redeployment operations in the area, had been utilizing the facilities owned by the Kuwaiti Government. Over time, some damage had occurred in the areas of U.S. Military operations. The survey was executed to document the conditions of the pier area, evaluate damaged areas, and recommend construction methods for repair. The inventory walk-thru began in Pier Area 12, continuing counter-clockwise through Pier Area 20. Each damaged area was photographed, measured, located with GPS, and filmed by digital video. Thirty-one (31) areas of damage/deterioration were identified. Conclusions and recommended actions were made in the final report.

Duncan M. Penney, R.A., LEED® AP

Architect

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. Mr. Penney is also a U.S. Green Building Council, LEED® accredited professional, with recent experience on over a dozen Pennsylvania Army National Guard Readiness Centers, statewide, for the Stryker Brigade Combat Teams, and Silver LEED®-certified U.S. Army Reserve Center projects for the Louisville District, U.S. Army Corps of Engineers. He is a skilled team facilitator and is adept in providing cross-functional team leadership. He maintains close liaison with clients.

Years with Baker: 7

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, 1986

Construction Documents Technologist, 2002

LEED Accredited Professional, 2003

Certified Construction Specifier, 2001

Certified Construction Contract Administrator, 2004

NCI Charrette System Certificate, 2006

Experience

U.S. Army Reserve Center OMS/AMSA/STRG, Greenville, South Carolina. *U.S. Army Corps of Engineers, Louisville District.* Architect. Responsibilities included preparation of construction documents. 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 new structures consist of structural steel frames, masonry veneer exterior walls, and standing seam metal roofs. The OMS/AMSA houses office and administrative areas, tool and parts storage, 10 work bays, one welding bay, controlled and flammable storage, wash bay, and building support functions. One drive-through bay is serviced by an overhead traveling crane. The Training Center houses offices and administrative spaces, caged unit storage, classrooms, library, learning center, weapons simulation room, physical readiness area, engagement skills trainer, a COMSEC training room, an arms vault and armorer's room, an assembly hall, kitchen, and building support functions. 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.

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®.

U.S. Armed Forces Reserve Center, Rutland, Vermont. *U.S. Army Corps of Engineers, Louisville District.* Architect. Served as an advisor to the A/E design team for planning and implementing a design charrette for the client. Baker developed Design/Build RFP Documents for a new 600-member Armed Forces Reserve Center meeting Silver LEED® standards. A 97,634-square-foot training building (AFRC), a 14,600-square-foot multi-use classroom, a 7,302-square-foot Organized Maintenance Shop (OMS), and a 3,113-square-foot unheated storage (UHS) building is included in the RFP package. The center accommodates training and mobilization, and provides for the storage, inspection, maintenance, and repair of combat and tactical vehicles and equipment associated with the regional deployment of Vermont Army National Guard and Army Reserve units. The RFP development consists of conducting a design charrette, providing a topographical survey and geotechnical investigation, performing a utility survey, developing conceptual site plans, floor plans, and building elevations, developing RFP specifications, preparing DD Form 1354 – Transfer of Real Property, and providing a PACES construction cost estimate.

Design/Build SATOC for Military Facilities in the Southwest Region, Various Locations in Southwestern U.S., AR, AZ, CA, LA, NM, NV, OK, TX. *U.S. Army Corps of Engineers, Tulsa District.* Architect. Responsibilities included serving as LEED Project Administrator, along with being an advisor to the review team for sustainability and LEED design and construction issues. Projects constructed under this contract include Brigade Combat Team (BCT) Tactical Equipment Maintenance Facilities (TEMF). TEMFs provide facilities for the purpose of maintaining and repairing vehicles, complete with equipment and parts storage, and administrative offices. Task orders awarded to date include the following: Two TEMFs at Fort Bliss in El Paso, Texas to be shared by five Battalions and one Company; and a Unit Operations Facilities consisting of a TEMF and an Organizational (Deployment) Storage facility, at Fort Bliss in El Paso, Texas. Facility designs are required to meet or exceed a Silver LEED® certification.

Armed Forces Reserve Center, Grand Prairie, Texas. *U.S. Army Corps of Engineers, Louisville District.* Architect. Responsibilities included serving as a technical advisor for the construction documents. Baker and another consultant design/build team are constructing a new facility to serve as an Armed Forces Reserve Center (AFRC) for units of the U.S. Army Reserve (USAR) and Texas Army National Guard. The USAR uses the AFRC for administrative activities, to plan and support operations, and to train unit personnel in their engineering specialties. Four separate buildings are being constructed on various sites on the Grand Prairie Reserve Complex, including a new 78,600-square-foot Administration building, 30,070-square-foot Storage building, 30,450-square-foot Facility Maintenance Storage (FMS) building, and a 4,900-square-foot Unheated Storage building.

U.S. Armed Forces Reserve Center, Bristol, Pennsylvania. *U.S. Army Corps of Engineers, Louisville District.* Architect. Responsibilities included serving as an advisor to the A/E design team for planning and implementing a design charrette for the client. Baker developed Design/Build RFP Documents for a new 600-member Armed Forces Reserve Center with Organized Maintenance Shop (OMS) and an Unheated Storage (UHS) building that realigns Army Reserve and Marine Reserve units as directed by BRAC 05. The facility will provide administrative, educational, assembly, library, learning center, vault, weapons simulator, and physical fitness areas for eight Army Reserve units and three Marine units, as well as provide adequate parking for all military and privately-owned vehicles. A 94,500-square-foot training building (AFRC), an 8,900-square-foot Maintenance Shop (OMS), and a 2,900-square-foot unheated storage (UHS) building was included in the RFP package. The buildings will be permanent construction with reinforced concrete foundations, concrete floor slabs, and will include mechanical, electrical, and information systems including SIPRNET rooms, as required. Supporting facilities will include site preparation, paving, fencing, and extension of utilities to serve the project. The facility was designed to meet Silver LEED® standards and be ADA compliant.

Alana S. Pulay, IIDA, LEED® AP

Interior Designer

Years with Baker: <1

Years with Other Firms: 7

Education

M.S. Architecture Specializing in Interior Design, University of Nebraska, 2010

B.S., Interior Design, The Ohio State University, 2003

Registrations

NCIDQ, 2005

LEED AP, 2008

Professional Affiliations

International Interior Design Association

General Qualifications

Ms. Pulay is a professional interior designer with comprehensive knowledge of architecture and the design industry with over 7 years of experience in commercial and residential design, project budgeting, specifications writing, bid preparation and contract negotiations, construction job site scheduling, and green building design. Ms. Pulay has led and managed numerous interior design projects where she was responsible for the design, development, and coordination of all interior elements of the projects, including selection of all finishes, furnishings, and equipment.

Ms. Pulay also taught junior level interior design studio classes for the University of Charleston, which included syllabus preparation and development of the course interior design project for the semester. She also mentored senior interior design students.

Ms. Pulay is a well organized professional who enjoys a challenge and is committed to lifelong self-improvement. She is an effective team player with proven listening, interpersonal, and communications skills. Ms. Pulay is proficient in AutoCAD, SketchUp, Adobe Photoshop, MS Word, MS Excel, and MS PowerPoint.

Experience

Little Kanawha Bus Facility, Grantsville, Calhoun County, West Virginia. *West Virginia Division of Public Transit.* Interior Designer. Baker is providing architectural and engineering services, interior design, 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.

West Virginia State Capitol Restroom Renovations, Charleston, West Virginia. *State of West Virginia, General Services Division.* Interior Designer. Ms. Pulay is currently providing the State of West Virginia General Services Division interior design support for a comprehensive restroom renovation and upgrade effort for Building 1 of the West Virginia Capitol. Working in conjunction with the Owner and a team of specialized sub-consultants, Ms. Pulay is currently assisting the MEP effort to replace and update the plumbing and lighting fixtures in all the restrooms to meet new ADA standards, yet remain sympathetic to the original and historic Cass Gilbert original design.

Non-Baker Project Experience

Erma Byrd Higher Education Center, Beaver, Raleigh County, West Virginia. *Southern West Virginia Community and Technical College.* Project Interior Designer. Responsible for space planning and the selection of finishes and furnishings. This project provides a central location for classroom and administrative space to be shared by six different colleges and universities. It is the first building of a planned campus

environment comprised of other classroom buildings and research facilities. The project consists of 29,700 SF on the main level and 3,300 SF of mechanical mezzanine. Being a teaching facility the building itself is designed to be a teaching tool. Day lighting is incorporated throughout the building and the mechanical equipment is designed to be viewed and monitored by students in a learning environment. Using data collected by various sensors, the control system can graphically display how all systems react to changes in environmental conditions. The design concept was based on "green" principles. Fritz tile, linoleum flooring, and low VOC paints were specified to complete the design. Total project cost: $7.5 million. Completion date: September 2007.

Lincoln County High School, Hamlin, West Virginia, *Lincoln County Board of Education.* Interior Designer. Prepared complete construction drawings for entire project interior. Lincoln County High School combines four existing high schools into one school. Completed in August 2006, the new $31.4 million facility provides 217,000 SF for 950 enrolled students. To formulate a more comprehensive approach to this project, the Owner also added the vocational school's curriculum to broaden students' learning opportunities. Students can now attend regular curriculum classes and vocational classes under one roof. The classrooms themselves provided a showcase for state-of-the-art technology. By simply observing how automatic lighting controls enhance natural day lighting in their classrooms, students are able to visualize sustainable design, energy conservation, and technology working in tandem. A full integrated computer system allows students and faculty computer access throughout the entire facility and in every typed of classroom. The interior design combines concepts from "green" design and bright colors to make a dynamic environment for the students in the shared common areas. The classrooms were designed in neutral color palette for an optimized learning environment. Linoleum flooring was selected along with carpet tiles to help achieve a sustainable design.

Wayne Elementary School, Wayne, West Virginia, *Wayne County Board of Education.* Interior Designer. Prepared complete construction drawings for entire project interior. The new 48,276 SF Wayne Elementary School replaces an outdated facility on a more centrally located site. This school included new kindergarten rooms, classrooms, art instruction studio, music room, separate dining and physical education spaces, a state of the art media center, and other academic areas. This project was funded mostly by a West Virginia School Building Authority grant. The outstanding use of color throughout the building creates a bright, exciting environment for learning. The interior design for this project included creating the interior floor pattern, selection of finished and furnishings, developing the construction documents and following through with the final punch list after completion of construction. The color scheme was developed as a collaborative effort with the school's "Color Committee". This group consisted of teachers, parents, community members, and faculty who are involved within the school system. There was also collaboration with the project architect to align architectural elements with the floor pattern. Total project cost: $7,132,429.00. Completion date: Fall, 2006.

Gene Spadaro Juvenile Center, Mt. Hope, West Virginia, *West Virginia Division of Corrections.* Interior Designer. Prepared complete construction drawings for entire project interior. This is a prototype juvenile center design evolving from a hardware-secured correctional institution to a staff-secured, rehabilitative center for at risk youths. Completed in October 2004, the building is constructed of load-bearing masonry walls with brick and natural stone veneer. The interior steel structure is exposed and painted. Innovative color schemes were used to create stimulating variety in the spaces. Lighting was carefully designed to supplement natural sunlight and ensure comfortable lighting levels. The shift to staff-secured programming required even greater levels of observation, communication and control, and the open layout of the plan meets these objectives. To offset the comfortable spaces of the shared areas, sleeping quarters resemble those in more institutional facilities, thus educating the youth about what their future could be if efforts to turn them away from delinquency and crime are ignored.

Erik P. Spicker, P.E.

Structural Engineer

General Qualifications

Mr. Spicker is a structural engineer with experience in the design of commercial, military, governmental, industrial, transit, educational, and residential design and construction. He is experienced in fast-tracked projects where substructure and foundation packages are released early and separately to contractors to allow early construction start.

He has conducted forensic inspections and evaluations of numerous existing structures to determine design capacity or structural deficiencies, and provided assessment reports along with repair recommendations. These projects include office buildings, schools, storage and warehouse facilities, and numerous residential structures.

Years with Baker: 7

Years with Other Firms: 8

Education
B.S.C.E., 1995, Civil Engineering, University of Akron

Licenses/Certifications
Professional Engineer:
Pennsylvania, 2000
Oklahoma, 2008
New Jersey, 2008
Connecticut, 2008

NCEES Certified, 2008

Experience

Design/Build AFQ/RFP Development for Statewide Construction Program, PAARNG Stryker Brigade Combat Team, Statewide, Pennsylvania. *US Property and Fiscal Office for Pennsylvania.* Structural Engineer. Responsibilities included performing technical QA/QC reviews of the structural engineering designs. Baker provided services under numerous National Guard Bureau IDIQ contracts to support the Pennsylvania Army National Guard (PAARNG) in implementing a $167,000,000 statewide construction program for the Stryker Brigade Combat Team conversion of numerous PAARNG facilities. The program included the design of new soldier Readiness Centers (RC) and vehicle Field Maintenance Shops (FMS), as well as facility additions. Baker performed all aspects of design/build RFP implementation, from providing significant architectural, structural, geotechnical, civil engineering, and other technical input for RFP Project Definition Documents, to developing the application form used to evaluate potential design/build contractor teams, to providing client support during the actual design/build team selection process. The sustainable design goal is for each finished facility to qualify for either a Gold SPiRiT or Silver LEED® -Certified rating. Baker's task orders include the following sites: Erie – a new Readiness Center and a new Field Maintenance Shop; Philadelphia – a new Readiness Center and Field Maintenance Shop; Elizabethtown – a new Readiness Center and a new Field Maintenance Shop; and Bradford and Huntingdon – new Readiness Centers.

U.S. Armed Forces Reserve Center, Rutland, Vermont. *U.S. Army Corps of Engineers; Louisville District.* Structural Engineer. Responsible for producing structural portion of Design-Build RFP documents. Baker developed Design/Build RFP Documents for a new 600-member Armed Forces Reserve Center meeting Silver LEED® standards. A 97,634-square-foot training building (AFRC), a 14,600-square-foot multi-use classroom, a 7,302-square-foot Organized Maintenance Shop (OMS), and a 3,113-square-foot unheated storage (UHS) building is included in the RFP package. The center accommodates training and mobilization, and provides for the storage, inspection, maintenance, and repair of combat and tactical vehicles and equipment associated with the regional deployment of Vermont Army National Guard and Army Reserve units. The RFP development consists of conducting a design charrette, providing a topographical survey and geotechnical investigation, performing a utility survey, developing conceptual site plans, floor plans, and

building elevations, developing RFP specifications, preparing DD Form 1354 – Transfer of Real Property, and providing a PACES construction cost estimate.

Armed Forces Reserve Center, McAlester, Oklahoma. *U.S. Army Corps of Engineers, Louisville District.* Structural Engineer. Responsible for serving as the structural engineer of record. The Korte-Baker design/build team is constructing a new 200 member Armed Forces Reserve Center (AFRC) for the United States Army Reserve (USAR) and the Oklahoma National Guard (OK ARNG) on approximately 15.5-acre site at the McAlester Army Ammunition Plant outside of McAlester, Oklahoma. The complex consists of an Armed Forces Reserve Center (Training Center), a Vehicle Maintenance Shop (VMS) that is a combined organizational maintenance shop and Field Maintenance Shop, and an Unheated Storage Building (UHS). The facility was designed to achieve a Silver LEED® sustainable rating; sustainable features include highly-efficient mechanical systems, recycled content materials, low-VOC materials, and efficient site usage.

Defense Medical Logistics Center, Fort Detrick, Maryland. *U.S. Army Corps of Engineers, Baltimore District.* Structural Engineer. Responsibilities included providing a technical QA/QC review of the structural design of this facility. 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.

Armed Forces Reserve Center, Fort Allen, Puerto Rico. *U.S. Army Corps of Engineers, Louisville District.* Structural Engineer. Responsible for serving as the structural engineer of record. The Korte-Baker design/build team is constructing a new 126-member Armed Forces Reserve Center (AFRC) for the United States Army Reserve (USAR) on approximately 8.5-acres of Army National Guard property within Fort Allen, near Ponce, Puerto Rico. The project will provide a critical training center, administration offices, education facilities, assembly area, library, learning center, arms vault, physical fitness areas, and storage facility for USAR units, and a PRARNG unit, in the Ponce area. Primary facilities will include a 49,320-square-foot AFRC and a 150-square-foot unheated storage building, designed for Silver LEED® certification. Baker is providing architectural and interior design; structural, mechanical, electrical, plumbing, and communications design; permitting; site survey; and geotechnical engineering.

U.S. Army Reserve Center OMS/AMSA/STRG, Greenville, South Carolina. *U.S. Army Corps of Engineers, Louisville District.* Structural Engineer. Responsibilities included leading the structural engineering design and providing construction phase support services. 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 new structures consist of structural steel frames, masonry veneer exterior walls, and standing seam metal roofs. The OMS/AMSA houses office and administrative areas, tool and parts storage, 10 work bays, one welding bay, controlled and flammable storage, wash bay, and building support functions. One drive-through bay is serviced by an overhead traveling crane. The Training Center houses offices and administrative spaces, caged unit storage, classrooms, library, learning center, weapons simulation room, physical readiness area, engagement skills trainer, a COMSEC training room, an arms vault and armorer's room, an assembly hall, kitchen, and building support functions. 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.

Dennis E. Myer, P.E., LEED® AP

Mechanical Engineer

General Qualifications

Mr. Myer is a mechanical engineer with extensive experience in designing HVAC systems for military, education, transit, aviation, industrial, commercial, and institutional applications. HVAC design experience includes hot and chilled water central plants, variable air volume (VAV) systems, as well as specialty HVAC applications such as maintenance garages, commercial kitchens, and vehicle tunnels. Mr. Myer has in depth expertise in public as well as military specific design standards including ASHRAE standards 90.1 and 62.1 as well as Military Unified Facilities Criteria (UFC's) including Anti-terrorism / Force Protection Standards (UFC 4-010-01).

Mr. Myer has experience with numerous U.S. Army Corps of Engineers, NAVFAC as well as USCG projects, and has on-site experience at dozens of bases, domestic and overseas. In addition to design responsibilities as Mechanical Engineer of Record, Mr. Myer has performed numerous site inspections, facilities assessments and other on-site construction activities to see projects from the design project through implementation and start-up.

Years with Baker: 13

Years with Other Firms: 3

Education

M.B.A., 2000, Business Administration, Robert Morris University

B.M.E., 1993, Mechanical Engineering, Gannon University

Licenses/Certifications

Professional Engineer:
Pennsylvania, 1999
Oklahoma, 2008
Mechanical, Oregon, 2008

LEED Accredited Professional, 2006

Experience

Design/Build AFQ/RFP Development for Statewide Construction Program, PAARNG Stryker Brigade Combat Team, Statewide, Pennsylvania. *US Property and Fiscal Office for Pennsylvania.* Engineering Manager. Responsibilities as the engineering task manager included coordination of all engineering disciplines and designs for the development of design/build RFP documents for the transformation of Reserve facilities to Stryker Brigade Combat Team facilities. Duties also included design of the mechanical systems. Baker provided services under numerous National Guard Bureau IDIQ contracts to support the Pennsylvania Army National Guard (PAARNG) in implementing a $167,000,000 statewide construction program for the Stryker Brigade Combat Team conversion of numerous PAARNG facilities. The program included the design of new soldier Readiness Centers (RC) and vehicle Field Maintenance Shops (FMS), as well as facility additions. Baker performed all aspects of design/build RFP implementation, from providing significant architectural, structural, geotechnical, civil engineering, and other technical input for RFP Project Definition Documents, to developing the application form used to evaluate potential design/build contractor teams, to providing client support during the actual design/build team selection process. The sustainable design goal is for each finished facility to qualify for either a Gold SPiRiT or Silver LEED® -Certified rating. Baker's task orders include the following sites: Erie – a new Readiness Center and a new Field Maintenance Shop; Philadelphia – a new Readiness Center and Field Maintenance Shop; Elizabethtown – a new Readiness Center and a new Field Maintenance Shop; and Bradford and Huntingdon – new Readiness Centers. Additionally, Baker has developed Design/Build RFP documents for the additions and alterations to Readiness Centers in Lewistown, Punxsutawney, Butler, Hanover, Lebanon, Huntingdon, and Hollidaysburg.

Design/Build SATOC for Military Facilities in the Southwest Region, Various Locations in Southwestern U.S., AR, AZ, CA, LA, NM, NV, OK, TX. *U.S. Army Corps of Engineers, Tulsa District.* Mechanical Engineer. Provided ITR (internal technical review) of mechanical systems design. Projects constructed under this contract include Brigade Combat Team (BCT) Tactical Equipment Maintenance Facilities (TEMF). TEMFs provide facilities for the purpose of maintaining and repairing vehicles, complete with equipment and parts storage, and administrative offices. Task orders awarded to date include the following: Two TEMFs at Fort Bliss in El Paso, Texas to be shared by five Battalions and one Company; and a Unit Operations Facilities consisting of a TEMF and an Organizational (Deployment) Storage facility, at Fort Bliss in El Paso, Texas. Facility designs are required to meet or exceed a Silver LEED® certification.

U.S. Army Reserve Center OMS/AMSA/STRG, Greenville, South Carolina. *U.S. Army Corps of Engineers, Louisville District.* Mechanical Engineer. Responsibilities included the complete mechanical (HVAC) design of an Army Reserve Center as the DOR (designer of record), supervising mechanical designers and drafters. Mechanical systems included a central hydronic hot and chilled water plant with primary and secondary piping systems. 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 new structures consist of structural steel frames, masonry veneer exterior walls, and standing seam metal roofs. The OMS/AMSA houses office and administrative areas, tool and parts storage, 10 work bays, one welding bay, controlled and flammable storage, wash bay, and building support functions. One drive-through bay is serviced by an overhead traveling crane. The Training Center houses offices and administrative spaces, caged unit storage, classrooms, library, learning center, weapons simulation room, physical readiness area, engagement skills trainer, a COMSEC training room, an arms vault and armorer's room, an assembly hall, kitchen, and building support functions. 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.

Armed Forces Reserve Center, Camp Bullis, San Antonio, Texas. *U.S. Army Corps of Engineers, Louisville District.* Mechanical Engineer. Supervised the design of the mechanical building systems that was performed by both in-house and subconsultant mechanical engineering firms. 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®.

Defense Medical Logistics Center, Fort Detrick, Maryland. *U.S. Army Corps of Engineers, Baltimore District.* Mechanical Engineer. Responsibilities included mechanical engineering design of the mechanical (HVAC) system as the DOR (designer of record), involving central hydronic hot and chilled water systems, and supervising mechanical designers and drafters. The design was performed as part of a design/build partnership requiring frequent interaction between the design team and contractors in order to optimize the design constructability and economics within the RFP scope requirements. The mechanical design included central hydronic hot and chilled water systems. 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.

Armed Forces Reserve Center, Grand Prairie, Texas. *U.S. Army Corps of Engineers, Louisville District.* Mechanical Engineer. Performed mechanical engineering design for multi building reserve center facilities including training building with high-efficiency boilers and central chiller plant serving VAV air distribution. Mechanical design of Organizational Maintenance Shop (garage facility) including CO/NOx purge systems, low-intensity overhead radiant heating, and specialty areas requiring explosion proof design including controlled waste, flammable storage and battery charging rooms. Baker and another consultant design/build team are constructing a new facility to serve as an Armed Forces Reserve Center (AFRC) for units of the U.S. Army Reserve (USAR) and Texas Army National Guard. The USAR uses the AFRC for administrative activities, to plan and support operations, and to train unit personnel in their engineering specialties. Four separate buildings are being constructed on various sites on the Grand Prairie Reserve Complex, including a new 78,600-square-foot Administration building, 30,070-square-foot Storage building, 30,450-square-foot Facility Maintenance Storage (FMS) building, and a 4,900-square-foot Unheated Storage building.

Owen Milligan, P.E.

Electrical Engineering

General Qualifications

Mr. Milligan is an electrical engineer who is experienced working with consulting engineering firms in the study and design of electric distribution and control systems, emergency power for process plants and facilities, water/wastewater treatment plants, government and commercial projects, ASHRAE energy-efficient building design, coordination with vendor and contractors, and approval of vendor drawings. He has a strong knowledge of distribution equipment and designs, motor control center layouts and design, and start-up and services during construction. He is capable of handling multiple projects from conception to final design, working as a team member toward meeting project goals. His work includes management of Baker's electrical engineering department, supervising and providing technical advice to designers and coordinating design and construction work with engineers, contractors, vendors, and clients. Mr. Milligan has participated in five-step SAVE International Process value engineering studies.

Years with Baker: 3

Years with Other Firms: 19

Education
B.S., 1988, Electrical Engineering, Gannon University

Licenses/Certifications
Professional Engineer:
Pennsylvania, 1999
California, 2003
Montana, 2001
Kentucky, 2005
Oklahoma, 2008

Experience

Defense Medical Logistics Center, Fort Detrick, Maryland. *U.S. Army Corps of Engineers, Baltimore District.* Electrical Engineer. Provided design consultation to the core team related to devices protecting the main transformer. Designs were required to meet UFC and military design standards. 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.

Design/Build SATOC for Military Facilities in the Southwest Region, Various Locations in Southwestern U.S., AR, AZ, CA, LA, NM, NV, OK, TX. *U.S. Army Corps of Engineers, Tulsa District.* Electrical Engineer. Provided design assistance to the electrical engineering subconsultant, and performed a technical quality review of the construction documents for the TEMFs located at Fort Bliss. Electrical systems included lighting, lightning protection and grounding, power distribution, telecommunications, fire alarm, and unique voltage and frequency requirements. Designs were required to meet UFC and military design standards. Projects constructed under this contract include Brigade Combat Team (BCT) Tactical Equipment Maintenance Facilities (TEMF). TEMFs provide facilities for the purpose of maintaining and repairing vehicles, complete with equipment and parts storage, and administrative offices. Task orders awarded to date include the following: Two TEMFs at Fort Bliss in El Paso, Texas to be shared by five Battalions and one Company; and a Unit Operations Facilities consisting of a TEMF and an Organizational (Deployment) Storage facility, at Fort Bliss in El Paso, Texas. Facility designs are required to meet or exceed a Silver LEED® certification.

A/E ID/IQ Contract for Design of Army Reserve and Military Projects, Nationwide. *U.S. Army Corps of Engineers, Louisville District.* Electrical Engineer. Provided technical narrative relating to the electrical engineering design for inclusion in design/build RFP documents for several projects. Also performed independent interdisciplinary technical reviews for various projects under this ID/IQ contract. Designs were required to meet UFC and military design standards. Baker performed work under a five year, $20 million Indefinite Delivery, Indefinite Quantity A/E Services Contract for the Louisville District of the U.S. Army Corps of Engineers. Under this contract, Baker provided full planning, design, and construction phase services for U.S. Army Reserve Facilities and Military Projects Nationwide.

Armed Forces Reserve Center, Camp Bullis, San Antonio, Texas. *U.S. Army Corps of Engineers, Louisville District.* Electrical Engineer. Provided technical quality oversight for all phases of the electrical systems design including lighting, power distribution, telecommunications, system calculations, and subconsultant coordination. Designs were required to meet UFC and military design standards. 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®.

Armed Forces Reserve Center, Grand Prairie, Texas. *U.S. Army Corps of Engineers, Louisville District.* QA/QC. Provided design consultation to the electrical design team and performed a technical quality review of the construction documents. Systems included lighting, power distribution, lightning protection and grounding, telecommunications, security, and fire alarm. Designs were required to meet UFC and military design standards. Baker and another consultant design/build team are constructing a new facility to serve as an Armed Forces Reserve Center (AFRC) for units of the U.S. Army Reserve (USAR) and Texas Army National Guard. The USAR uses the AFRC for administrative activities, to plan and support operations, and to train unit personnel in their engineering specialties. Four separate buildings are being constructed on various sites on the Grand Prairie Reserve Complex, including a new 78,600-square-foot Administration building, 30,070-square-foot Storage building, 30,450-square-foot Facility Maintenance Storage (FMS) building, and a 4,900-square-foot Unheated Storage building.

Design/Build U.S. Army Reserve Center, Fort Lewis, Washington. *U.S. Army Corps of Engineers, Louisville District.* QA/QC. Provided design consultation to the electrical subconsultant and performed a technical quality review of the electrical construction documents. Systems included lighting, power distribution, lightning protection and grounding, telecommunications, security, and fire alarm. Designs were required to meet UFC and military design standards. Baker, partnered with a consultant is constructing a new 1,000-member 119,425-square-foot U.S. Army Reserve Center (USARC) on a 17-acre site. The USARC is comprised of a Training Center, Unit Storage Building, and an Organizational Maintenance Shop/Area Maintenance Support Activity (OMS/AMSA). Functional spaces were provided for classrooms, offices spaces, assembly hall, kitchen, lockers, toilets, janitor rooms, shower rooms, library and reading room, learning center, network operations, telephone room, IT rooms, electrical rooms, mechanical rooms, mail room, weapons simulator and control rooms, maintenance bays, battery room, OMS and AMSA office, tools and parts storage, battery room, sprinkler room, and unit storage armory and vault. The facility was designed to meet the Gold SPiRiT sustainability level.

Kevin W. Louk, R.C.D.D./N.T.S./O.S.P./LEED® AP

Communications Designer

General Qualifications

Mr. Louk has a diversified electrical background with over 15 years of experience, including over 8 years in electrical design and over 7 years in electrical construction and maintenance. He has lead electrical design projects for military installations, higher and secondary education, telecommunications buildings, medical facilities, commercial buildings, restaurants, and large-scale retail. A licensed master electrician, Mr. Louk's design and installation experience has been in the specialized areas of hazardous locations, clean rooms, and data centers. In addition to electrical design, he has performed construction administration duties and specification writing for his projects.

Years with Baker: 3

Years with Other Firms: 7

Education

Certificate, 1998, Electrical Occupations, Professional Career Development Institute

Certificate, 1994, Electrical Maintenance, US Navy Electrician 'A' School

Licenses/Certifications

Master Electrician, West Virginia, 2000

RCDD/Outside Plant Specialist (OSP), 2008

Registered Communications Distribution Designer, 2008

RCDD/Network Transport Systems Specialist (NTS), 2008

Master Electrician, Virginia, 1999

ICC and IAEI Electrical Plans Examiner, 2003

ICC and IAEI Commercial Electrical Inspector, 2003

ICC and IAEI Electrical Inspector, 2003

LEED Accredited Professional, 2008

Experience

U.S. Armed Forces Reserve Center, Naval Station Newport, Rhode Island. *U.S. Army Corps of Engineers, Louisville District.* Electrical Designer. Responsible for performing the design and preparing specifications for the lighting, power, telecommunication, public address, fire alarm, mass notifications and intrusion detection systems (IDS) systems. Baker was tasked to provide design-bid-build documents for a 400-member, 64,828-square-foot U.S. Army Reserve project. The new 7.5-acre site was developed to include three structures including a USARC Readiness Training Center, Organizational Maintenance Shop, and an Unheated Storage facility. Sustainable Design and Development and Energy Policy Act of 2005 features were provided to meet the Silver level of LEED® certification.

U.S. Armed Forces Reserve Center, Bristol, Pennsylvania. *U.S. Army Corps of Engineers, Louisville District.* Electrical Designer. Responsibilities included answering request for information (RFI) from electrical contractor. Baker developed Design/Build RFP Documents for a new 600-member Armed Forces Reserve Center with Organized Maintenance Shop (OMS) and an Unheated Storage (UHS) building that realigns Army Reserve and Marine Reserve units as directed by BRAC 05. The facility will provide administrative, educational, assembly, library, learning center, vault, weapons simulator, and physical fitness areas for eight Army Reserve units and three Marine units, as well as provide adequate parking for all military and privately-owned vehicles. A 94,500-square-foot training building (AFRC), an 8,900-square-foot Maintenance Shop (OMS), and a 2,900-square-foot unheated storage (UHS) building was included in the RFP package. The buildings will be permanent construction with reinforced concrete foundations, concrete floor slabs, and will include mechanical, electrical, and information systems including SIPRNET rooms, as required. Supporting facilities will include site preparation, paving, fencing, and extension of utilities to serve the project. The facility was designed to meet Silver LEED® standards and be ADA compliant.

Armed Forces Reserve Center, Grand Prairie, Texas. *U.S. Army Corps of Engineers, Louisville District.* Electrical Designer. Responsibilities included construction administration involving telecommunications systems including data, phone, and intrusion detection systems (IDS), security and access entry systems. Baker and another consultant design/build team are constructing a new facility to serve as an Armed Forces Reserve Center (AFRC) for units of the U.S. Army Reserve (USAR) and Texas Army National Guard. The USAR uses the AFRC for administrative activities, to plan and support operations, and to train unit personnel in their engineering specialties. Four separate buildings are being constructed on various sites on the Grand Prairie Reserve Complex, including a new 78,600-square-foot Administration building, 30,070-square-foot Storage building, 30,450-square-foot Facility Maintenance Storage (FMS) building, and a 4,900-square-foot Unheated Storage building.

Design/Build SATOC for Military Facilities in the Southwest Region, Various Locations in Southwestern U.S., AR, AZ, CA, LA, NM, NV, OK, TX. *U.S. Army Corps of Engineers, Tulsa District.* Electrical Designer. Responsible for performing design and preparing specifications for the telecommunications system including voice, data, and public address systems. Projects constructed under this contract include Brigade Combat Team (BCT) Tactical Equipment Maintenance Facilities (TEMF). TEMFs provide facilities for the purpose of maintaining and repairing vehicles, complete with equipment and parts storage, and administrative offices. Task orders awarded to date include the following: Two TEMFs at Fort Bliss in El Paso, Texas to be shared by five Battalions and one Company; and a Unit Operations Facilities consisting of a TEMF and an Organizational (Deployment) Storage facility, at Fort Bliss in El Paso, Texas. Facility designs are required to meet or exceed a Silver LEED® certification.

Design/Build Armed Forces Reserve Center, Bell, California. *U.S. Army Corps of Engineers, Louisville District.* Electrical Designer. Responsibilities included construction administration involving telecommunications systems including data, phone, and intrusion detection systems (IDS), security and access entry systems. Baker was the designer-of-record, working with a consultant and the client, for the design/build delivery of a $62 million, 238,500-square-foot Armed Forces Reserve Center complex, comprised of a 179,000-square-foot Administrative/Training facility, 44,000-square-foot Organizational Maintenance Shop, and a 15,500-square-foot Unheated Storage facility (AFRC/OMS/UHS) with all site features. The facility was designed to achieve a Silver LEED® sustainable rating. Services provided include architecture, Structural Interior Design (SID) and Comprehensive Interior Design (CID), site/civil, all building engineering, and value engineering.

Armed Forces Reserve Center, Camp Bullis, San Antonio, Texas. *U.S. Army Corps of Engineers, Louisville District.* Electrical Designer. Responsibilities included construction administration involving telecommunications systems including data, phone, and intrusion detection systems (IDS), security and access entry systems. 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®.

U.S. Army Reserve Center, Uniontown, Pennsylvania. *U.S. Army Corps of Engineers, Louisville District.* Electrical Designer. Responsible for overseeing the design and preparing the specifications for the telecommunications systems including data, voice, and public address system. Responsible for the security systems including intrusion detection (IDS) and access/entry control.

Steven K. Henry, C.P.D.

Plumbing Designer

General Qualifications

Mr. Henry is experienced in the design of plumbing and fire protection systems, field surveys, and code interpretation. His project experience includes tenant space fit-outs and designs for shell buildings for both new and renovated government, military, vehicle maintenance, aviation, commercial, light industrial, data/communication, educational, institutional, high-rise apartments and hotels, and health care facilities. Mr. Henry is proficient with Intergraph MicroStation and AutoCAD design software.

Years with Baker: 5

Years with Other Firms: 12

Education
A.S.T., 1993, Drafting and Design Technology/Computer Graphics/Arch. CADD, Pittsburgh Technical Institute

Licenses/Certifications
Certified Plumbing Designer, 2002

Experience

Design/Build AFQ/RFP Development for Statewide Construction Program, PAARNG Stryker Brigade Combat Team, Statewide, Pennsylvania. *US Property and Fiscal Office for Pennsylvania.* Designer. Responsibilities included preliminary design and technical approach narrative for the plumbing and fire protection systems. Baker provided services under numerous National Guard Bureau IDIQ contracts to support the Pennsylvania Army National Guard (PAARNG) in implementing a $167,000,000 statewide construction program for the Stryker Brigade Combat Team conversion of numerous PAARNG facilities. The program included the design of new soldier Readiness Centers (RC) and vehicle Field Maintenance Shops (FMS), as well as facility additions. Baker performed all aspects of design/build RFP implementation, from providing significant architectural, structural, geotechnical, civil engineering, and other technical input for RFP Project Definition Documents, to developing the application form used to evaluate potential design/build contractor teams, to providing client support during the actual design/build team selection process. The sustainable design goal is for each finished facility to qualify for either a Gold SPiRiT or Silver LEED® -Certified rating. Baker's task orders include the following sites: Erie – a new Readiness Center and a new Field Maintenance Shop; Philadelphia – a new Readiness Center and Field Maintenance Shop; Elizabethtown – a new Readiness Center and a new Field Maintenance Shop; and Bradford and Huntingdon – new Readiness Centers. Additionally, Baker has developed Design/Build RFP documents for the additions and alterations to Readiness Centers in Lewistown, Punxsutawney, Butler, Hanover, Lebanon, Huntingdon, and Hollidaysburg.

Defense Medical Logistics Center, Fort Detrick, Maryland. *U.S. Army Corps of Engineers, Baltimore District.* Designer. Responsible for product selection and calculations for plumbing systems. 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.

Design/Build Armed Forces Reserve Center, Bell, California. *U.S. Army Corps of Engineers, Louisville District.* Designer. Responsible for the preparation of technical narrative in support of the plumbing and fire protection systems during the proposal phase. During the design phase, responsibilities involved specification

writing for plumbing and fire protection systems and assisting with the plumbing system design. Baker was the designer-of-record, working with a consultant and the client, for the design/build delivery of a $62 million, 238,500-square-foot Armed Forces Reserve Center complex, comprised of a 179,000-square-foot Administrative/Training facility, 44,000-square-foot Organizational Maintenance Shop, and a 15,500-square-foot Unheated Storage facility (AFRC/OMS/UHS) with all site features. The facility was designed to achieve a Silver LEED® sustainable rating. Services provided include architecture, Structural Interior Design (SID) and Comprehensive Interior Design (CID), site/civil, all building engineering, and value engineering.

Louisville District IDIQ for Various Civil and Military Projects, Great Lakes and Ohio River Division, Louisville, Kentucky. *U.S. Army Corps of Engineers, Louisville District.* QA/QC. Responsibilities included a quality assurance review of the plumbing and fire protection systems for Fort Knox High School. A variety of planning and design services were provided to the U.S. Army Corps of Engineers, Louisville District under an Indefinite Delivery Contract. Delivery Orders included master plan updates, capital investment strategies, installation design guides, and facility designs for an Army Reserve Center, Battalion Operations Facility, and an Army Base High School.

Armed Forces Reserve Center, Camp Bullis, San Antonio, Texas. *U.S. Army Corps of Engineers, Louisville District.* Designer. Responsible for the preparation of technical narrative in support of the preliminary design of the plumbing and fire protection systems. 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®.

U.S. Army Reserve Center OMS/AMSA/STRG, Greenville, South Carolina. *U.S. Army Corps of Engineers, Louisville District.* Designer. Responsibilities included assisting in the plumbing design that included natural gas and compressed air systems. Performed calculations and product and fixture selection. 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 new structures consist of structural steel frames, masonry veneer exterior walls, and standing seam metal roofs. The OMS/AMSA houses office and administrative areas, tool and parts storage, 10 work bays, one welding bay, controlled and flammable storage, wash bay, and building support functions. One drive-through bay is serviced by an overhead traveling crane. The Training Center houses offices and administrative spaces, caged unit storage, classrooms, library, learning center, weapons simulation room, physical readiness area, engagement skills trainer, a COMSEC training room, an arms vault and armorer's room, an assembly hall, kitchen, and building support functions. 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.

Two Tactical Equipment Maintenance Facilities, SATOC TO #1, Fort Bliss, El Paso, Texas. *U.S. Army Corps of Engineers, Tulsa District.* Designer. Served as the lead plumbing designer for oily waste, sanitary waste, and vent, and domestic water. Design also included compressed air system and POL fluid distribution system. Projects constructed under this task order include Brigade Combat Team (BCT) Tactical Equipment Maintenance Facilities (TEMF). TEMFs provide facilities for the purpose of maintaining and repairing vehicles, complete with equipment and parts storage, and administrative offices.

David J. Cameron, A.V.S.

Operations Manager for Construction Services

General Qualifications

Years with Baker: 25

Years with Other Firms: 10

Education
A.S., 1980, Construction Management, Community College of Allegheny County

Licenses/Certifications
Associate Value Specialist, 2007

Mr. Cameron has direct responsibility for the implementation of Baker's facilities construction management program. In addition to managing specific projects, his responsibilities include oversight project management, providing design and construction phase services to both internal and external clients. Services provided include project/program planning, design management, value analysis/engineering, budgeting, cost estimating, construction scheduling, project phasing and logistics, bid phase services, subcontractor coordination, inspection, forensic investigation, claims mitigation, litigation support, and overall construction administration of Baker's facility construction management practice. In addition to his client service responsibilities, Mr. Cameron also serves as the liaison between the office and field staff, ensuring appropriate coordination and communication among all parties involved with the projects. Well versed in general contracting, design-build and construction management-At Risk & for Fee contracting services, Mr. Cameron has worked for a variety of public and private sector clients including military, judicial/corrections, commercial, government (non DoD), educational, transit, hospitality, aviation, health care, and recreational. As a project manager, he is responsible for the successful completion of individual projects ranging in value from $1 million to $800 million.

Experience

Design/Build AFQ/RFP Development for Statewide Construction Program, PAARNG Stryker Brigade Combat Team, Statewide, Pennsylvania. *US Property and Fiscal Office for Pennsylvania.* Project Manager. Responsibilities included overseeing the development of program requirements and the Project Definition Document bid packages in concert with both established and new State requirements. Also responsible for facilitating and documenting meetings and reports, interfacing with the clients, and providing support during procurement of the design/build teams. Mr. Cameron is currently managing Baker's task order for sites in Erie, Philadelphia, Lewistown, Elizabethtown, Bradford, Punxsutawney, Butler, Hanover, Lebanon, Huntingdon, and Hollidaysburg. Baker provided services under numerous National Guard Bureau IDIQ contracts to support the Pennsylvania Army National Guard (PAARNG) in implementing a $167,000,000 statewide construction program for the Stryker Brigade Combat Team conversion of numerous PAARNG facilities. The program included the design of new soldier Readiness Centers (RC) and vehicle Field Maintenance Shops (FMS), as well as facility additions. Baker performed all aspects of design/build RFP implementation, from providing significant architectural, structural, geotechnical, civil engineering, and other technical input for RFP Project Definition Documents, to developing the application form used to evaluate potential design/build contractor teams, to providing client support during the actual design/build team selection process. The sustainable design goal is for each finished facility to qualify for either a Gold SPiRiT or Silver LEED® -Certified rating. Baker's task orders include the following sites: Erie – a new Readiness Center and a new Field Maintenance Shop; Philadelphia – a new Readiness Center and Field Maintenance Shop; Elizabethtown – a new Readiness Center and a new Field Maintenance Shop; and Bradford and Huntingdon – new Readiness Centers. Additionally, Baker has developed Design/Build RFP documents for the additions and alterations to Readiness Centers in Lewistown, Punxsutawney, Butler, Hanover, Lebanon, Huntingdon, and Hollidaysburg.

Design/Build SATOC for Military Facilities in the Southwest Region, Various Locations in Southwestern U.S., AR, AZ, CA, LA, NM, NV, OK, TX. *U.S. Army Corps of Engineers, Tulsa District.* Project Manager. Responsibilities included oversight of all contracted design and coordination with the design/build contractor during the design phase, and all construction phase support services. In addition to the overall management responsibilities, design phase tasks included: conducting site and facility reviews and investigation, facilitating design charrettes and internal and external design review meetings, constructibility reviews, value analysis, preparation of Division 1 specifications, maintenance and updating of the design schedule. Construction phase tasks included: administrative oversight (and reviewing and/or responding to) shop drawing and RFI submissions, site inspections for review of DBC's work for general conformance with the construction documents, design support to DBC during construction, final inspection of work, and preparation of record drawings. Projects constructed under this contract include Brigade Combat Team (BCT) Tactical Equipment Maintenance Facilities (TEMF). TEMFs provide facilities for the purpose of maintaining and repairing vehicles, complete with equipment and parts storage, and administrative offices. Task orders awarded to date include the following: Two TEMFs at Fort Bliss in El Paso, Texas to be shared by five Battalions and one Company; and a Unit Operations Facilities consisting of a TEMF and an Organizational (Deployment) Storage facility, at Fort Bliss in El Paso, Texas. Facility designs are required to meet or exceed a Silver LEED® certification.

Open-End Architectural/Engineering Services at West Virginia University, Morgantown, West Virginia. *West Virginia University.* Project Manager. Responsibilities included oversight of activities of full-time, on-site project managers functioning as an extension of WVU's staff, to assist the University with the implementation of its Master Plan. Responsibilities also included providing contracts administration, quality assurance oversight, coordination with facility administration and maintenance staff, scheduling and change order analysis, as well as monitoring the work of the designers, contractor, and construction management team. Baker was retained by the West Virginia University (WVU) under an Open-End Architectural and Engineering contract to oversee the construction implementation of the university's campus master plan. Baker's tasks include program management, programming, planning, design development, construction documentation, evaluations, feasibility studies, and construction contract administration services. Functioning as an extension of WVU's staff, Baker provided full-time, on-site owner representation to monitor the work of the design, contractor, and construction management team on various projects.

A/E ID/IQ Contract for Design of Army Reserve and Military Projects, Nationwide. *U.S. Army Corps of Engineers, Louisville District.* Technical Advisor. Responsibilities included providing logistics, constructibility, and schedule consultation on an as needed basis. Baker performed work under a five year, $20 million Indefinite Delivery, Indefinite Quantity A/E Services Contract for the Louisville District of the U.S. Army Corps of Engineers. Under this contract, Baker provided full planning, design, and construction phase services for U.S. Army Reserve Facilities and Military Projects Nationwide.