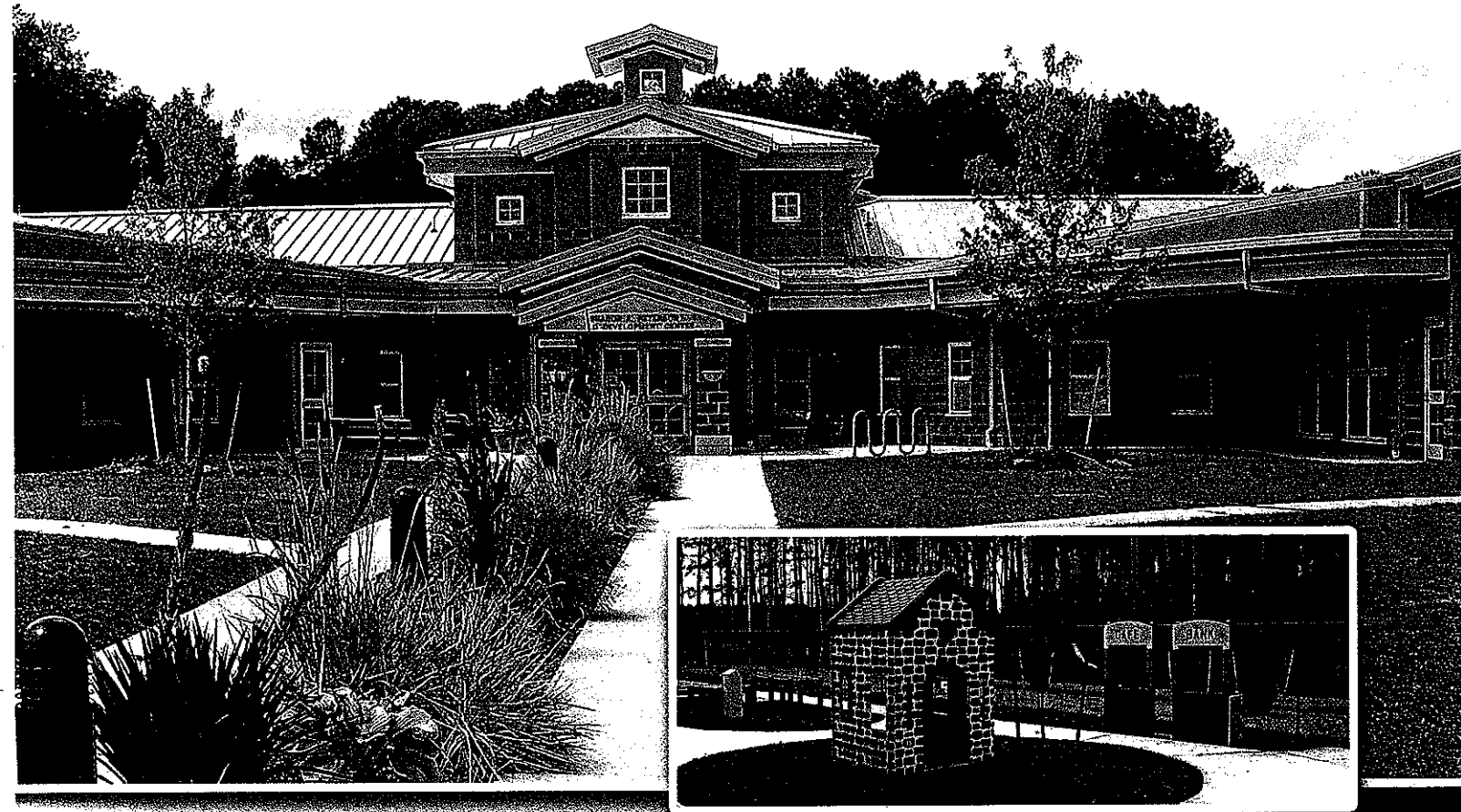


Expression of Interest #GSD116404

A&E Services for Design of New Capitol Day Care

Building #16, 106 Michigan Avenue, Charleston, West Virginia

September 22, 2010



Submitted to:
State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street, East
P.O. Box 50130
Charleston, WV 25305-0130

RECEIVED

2010 SEP 22 P 12: 11

PURCHASING DIVISION
STATE OF WV

Baker

Submitted by:
Michael Baker Jr., Inc.
Second Floor
5088 W. Washington Street
Charleston, WV 25313

Baker

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

September 22, 2010

Ms. Krista Ferrell, Senior Buyer
State of WV Department of Administration
Purchasing Division
Building 15
2019 Washington Street East
P.O. Box 50130
Charleston, West Virginia 25305-0130

**RE: Expression of Interest to Provide Architectural / Engineering Design Services
GSD116404 – Capitol Day Care Center
State of WV – General Services Division**

Dear Ms. Ferrell:

Michael Baker Jr., Inc. (Baker) is pleased to respond to the Request for Expression of Interest for the design of the Day Care Center at the West Virginia Capitol Campus – General Services Division (GSD). It is our understanding that the state intends to construct a new Day Care Center to replace the existing aging facility. The purpose of this project is to provide complete design services and prepare bid documents for the construction of the new facility to be located at 106 Michigan Avenue in Charleston, West Virginia, and to provide the completed documents and specifications to the Owner.

Baker is ideally suited for this new facility project. Our Principal and project staff are very familiar with the Capitol Campus having recently completed historic research, a survey of utilities, and an existing conditions assessment for the West Virginia Capitol Campus Master Plan. Our proposed team for the Capitol Day Care project will be led by:

- Russell Hall, P.E., P.S., Principal In-Charge
- Ron Bolen, R.A., AIA, Project Manager

The Baker Team will bring all of the technical and design skills required to scope, plan, and deliver this assignment efficiently and effectively. With our diverse areas of expertise, we will bring all of the required professional expertise to the project without the need for any subconsultants.

The overall approach to this project will follow these steps:

- Survey existing site and utility conditions.
- Coordinate with the GSD for the complete program of the proposed facility.
- Prepare Schematic Design Documents and Preliminary Budget.
- Prepare Design Development Documents and Refined Budget.
- Prepare Construction Documents and Final Budget.
- Provide Construction Administration.

We have reviewed the terms and conditions of this Expression of Interest as set forth by the Purchasing Division, and will fully comply. It is understood that the vendor relationship is that of an independent contractor. The term of contract is 12 months and may be renewed, as necessary, to obtain a new contract or to complete the work. Insurance coverage at the appropriate levels is in place. No price or fee was requested or permitted, and none has been included. Form WV-1, Vendor Registration, has been provided, as well as a signed Affidavit indicating that no debit is owed to the state. Michael Baker Jr., Inc.'s business and professional licensing is in place. Confidentiality in the preparation of this EOI is certified. There is no conflict of interest, no gratuities have been extended, and we have engaged in no lobbying efforts. The required forms are included in the binder, behind this letter, for this EOI response.

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

Sincerely,

MICHAEL BAKER JR., INC.



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

Assistant Vice President / Principal-In-Charge



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
GSD116404

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
**KRISTA FERRELL
 304-558-2596**

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

STATE TO

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
08/25/2010				

BID OPENING DATE: **09/22/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-07		
<p>A&E SERVICES FOR DESIGN OF NEW CAPITOL DAY CARE</p> <p>EXPRESSION OF INTEREST (EOI)</p> <p>THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF GENERAL SERVICES, IS SOLICITING EXPRESSIONS OF INTEREST FOR QUALIFIED PROFESSIONAL ARCHITECTURAL AND ENGINEERING FIRMS TO PROVIDE DESIGN OF A NEW CAPITOL DAY CARE CENTER TO BE LOCATED AT 106 MICHIGAN AVENUE IN CHARLESTON, WEST VIRGINIA PER THE ATTACHED SPECIFICATIONS.</p> <p>TECHNICAL QUESTIONS CONCERNING IS SOLICITATION MUST BE SUBMITTED IN WRITING TO KRISTA FERRELL IN THE WEST VIRGINIA STATE PURCHASING DIVISION VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS EOI, VIA FAX AT 304-558-4115, OR VIA EMAIL AT KRISTA.S.FERRELL@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 09/09/2010 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ISSUED BY FORMAL ADDENDUM TO BE ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED.</p> <p>EXHIBIT 10</p> <p>REQUISITION NO.:</p> <p>ADDENDUM ACKNOWLEDGEMENT</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE <i>[Signature]</i>	TELEPHONE 304-769-0821	DATE 9/22/10	
TITLE Project Principle	FEIN 251228638	ADDRESS CHANGES TO BE NOTED ABOVE	

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



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

Request for Quotation

RFQ NUMBER
GSD116404

PAGE
2

ADDRESS CORRESPONDENCE TO ATTENTION OF
**KRISTA FERRELL
 304-558-2596**

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
08/25/2010				

BID OPENING DATE: **09/22/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
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I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED
 ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY
 PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.

ADDENDUM NO.'S:

- NO. 1
- NO. 2
- NO. 3
- NO. 4
- NO. 5

I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF TH
 ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF EOIS.

VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL
 REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY
 ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES
 AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE
 INFORMATION ISSUED IN WRITING AND ADDED TO THE
 SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.

Michael Baker Jr., Inc.

 SIGNATURE

Michael Baker Jr., Inc.

.....
 COMPANY

9/22/10

.....
 DATE

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *Project Principle* TELEPHONE 304-769-0821 DATE 9/22/10

TITLE Project Principle FEIN 251228638 ADDRESS CHANGES TO BE NOTED ABOVE

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

STATE OF WEST VIRGINIA
Purchasing Division**PURCHASING AFFIDAVIT**

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

DEFINITIONS:

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

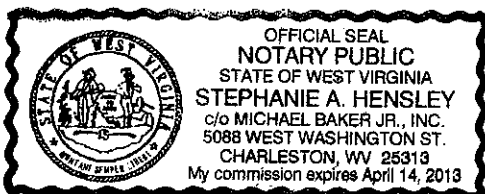
"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality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

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

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

WITNESS THE FOLLOWING SIGNATUREVendor's Name: Michael Baker Jr. Inc.Authorized Signature: *Russell E. Hall* Date: 9/22/10State of West VirginiaCounty of Kanawha, to-wit:Taken, subscribed, and sworn to before me this 22nd day of September, 20 10.My Commission expires April 14, 20 13.

AFFIX SEAL HERE

NOTARY PUBLIC *Stephanie A. Hensley*



4.2.1. Concept

Provide a discussion of the project, anticipated concepts and your firm's proposed methods of addressing the concerns and concepts as explained in the Background, General Requirements, and Project Description.

Baker's proposed approach to this project will require a collaborative effort with the West Virginia General Services Division (GSD) and the Capitol Day Care Center to assess the project requirements, goals and the GSD's conditions of satisfaction for the project, and to balance the desired aesthetic effects with an energy-conscious design. These topics, as well as the schedule and budget for the project, will be discussed at a project kick-off meeting (Committee Meeting 1), after which the Baker Team will commence the initial phase.

The initial phase involves an investigation of the existing site conditions and utilities. Based on our findings from this investigation and our understanding of the project programming, we will develop concepts and make recommendations to GSD for the design of the proposed Capitol Day Care Center. These recommendations will be reviewed with the GSD (Committee Meeting 2), using plans, cut sheets, sketches, and computer-generated drawings to communicate the visual effects of the proposed design.

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

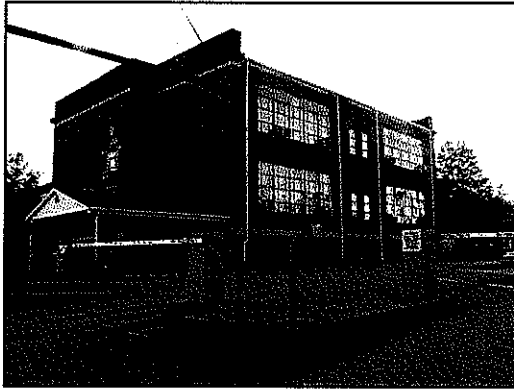
The Baker team will continue to support the GSD during the construction phase, answering bid questions, developing clarification sketches or other documents as necessary, providing periodic site observations, reviewing submittals, and answering RFIs (contractor's requests for information to clarify the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

The proposed site, located at the corner of Washington Street and Michigan Avenue in Charleston, currently has condemned apartment buildings and residential housing complexes. GSD has currently begun to have the condemned buildings razed and cleared off the site for the new facility. The site lends itself well to have entry on Michigan Avenue for better traffic control and access to the Capitol Complex for employees dropping off and picking up children before and after the work day. Across Michigan Avenue is GSD's engineering office, which represents the neighborhood's mixture of residential and light commercial architecture. With the Capitol complex a block away, the proposed facility will enhance the main capital structure, blend within the existing neighborhood, and be adaptive to the future development of the Capitol Complex.



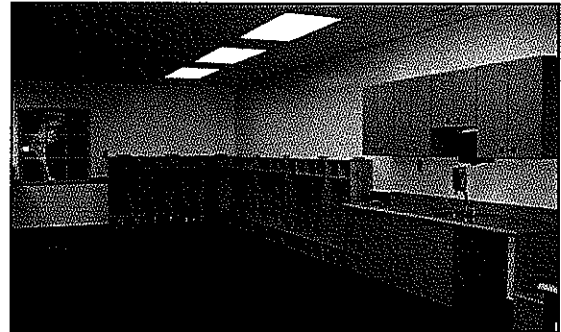


The existing day care center, which is diagonally across Washington Street from the proposed site and houses the children, faculty, and administrative staff, is an aged former school with over-crowded conditions.

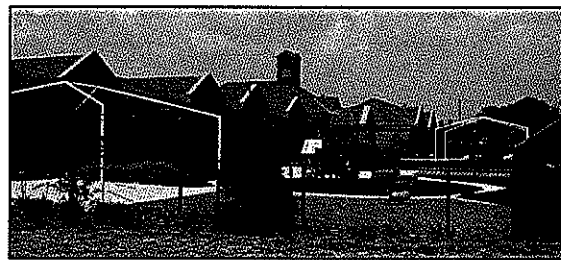


Design Considerations for the Capitol Day Care Center at the West Virginia State Capitol Complex

The design of the new Capitol Day Care Center should maximize site opportunities while enhancing the existing Capitol Complex plan, providing a positive and flexible learning environment and establishing a design aesthetic that is complimentary to its historical environment and appropriate for its vision and mission. The design should provide a child-friendly, safe, secure, and age-appropriate indoor and outdoor activity environment in an attractive and aesthetically pleasing facility. Programmatic components must consider required and efficient adjacencies that respond to their function and purpose, including corridors, room types, sizes and configurations, ceiling heights, and finishes. The facility design needs to provide visual control of the entire building, manage any risk to the children, and be easily adaptable and relatively maintenance-free.



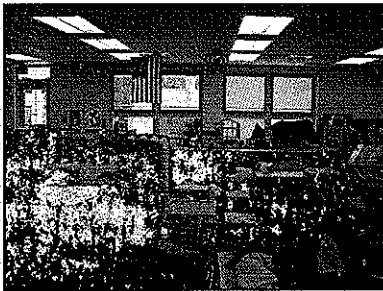
The selected materials and systems must convey a sense of unity and connectivity with the look and feel of the adjacent buildings, and with the Capitol Campus as a whole. Playgrounds serve as extensions of day care spaces and must be designed to accommodate the varying age groups that will occupy the facility. Outdoor playground areas should also include sunshade structures.



The exterior entrance must provide a secure drop-off and pick-up area with ease of access to the facility, while providing a pleasant transition to this important moment for a child, the new Capitol Day Care Center becomes an oasis of security for the child that inspires intellectual growth.



The interior layout of the new Capitol Day Care Center should center on providing life and fire safety. Tempered glass should be provided in all interior doors and windows. Unbreakable mirrors and tamper-resistant electrical outlets should be provided for safety. The interior design needs to provide the children with an enriching atmosphere. The overall interior palette should provide a clean, professional look that creates a positive learning environment with timeless flexibility. Maintenance-free and durable finishes, such as ceramic tile and sheet vinyl, should be considered for the majority of the spaces to help retain the clean look for years to come. Interior surfaces, floors, walls, and ceilings, should be easy to clean, repair, and maintain, and be durable and aesthetically pleasing.



Natural light from exterior and interior windows enhanced with artificial lighting should be considered to generate a bright, positive environment for the occupants. Design elements, such as large window sills at 18 inches above the floor level, will increase the children's views of the outdoors and enhance daylighting in the facility. The locations of lighting fixtures should be coordinated with the proposed furniture and space layout to provide an efficient and pleasant building. All millwork corners should have a radius to help prevent injury to the children and corner guards and/or chair rails in high-traffic areas to prevent damage from strollers and toys.

The goal is to provide a positive, safe, and healthy learning space, while offering a building that aids the staff in supervising the children and their activities. Selected materials should provide an enriching ambiance, and provide a clean appearance that provides a productive and inviting atmosphere with timeless flexibility.

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

Scope of Services

Task 1 – Comprehensive Site and Utilities Evaluation

The architectural design effort involves the following general aspects. Mechanical, electrical, plumbing, fire protection, structural, and civil engineering and landscape architecture will support these efforts.

1. **Survey existing site conditions:** Document existing civil-related conditions and physical features of the site. The site utilities discovered during the Capitol Campus Master Plan will be used as a base to be augmented by further site-specific investigation and coordination with utility companies. All findings will be documented and added to the base mapping.
2. **Report site and utility conditions:** Provide annotated plans and bound report outlining existing site-related conditions.
3. **Identify and verify the existing utility service lines serving the proposed site:** Annotated site plans will be prepared indicating the type, size, and location of existing lines, current conditions, and what upgrades may be required for the proposed facility.
4. **Pre-Design Planning:** During this phase Baker will collect all available data including utility maps, property plats, record drawings, etc. We will hold discussions with the Owner's selected groups for goals, aspirations, budget constraints, and timelines. We will work with the GSD and the end users to develop the basic program and all other functional elements and develop through "Design Charrette" with the design team.



Task 2 – Schematic Design

Establish program, criteria, and preliminary scheme. Based on documented GSD and team input, and design practice, a proposed program of visual hierarchies, needs, and related criteria will be developed. Once all programming data has been acquired, we will work with the GSD and the end users to develop conceptual layouts for the building program and all other functional elements.

Baker proposes to prepare preliminary annotated site plans, floor plans, elevations and schematic details with supporting documentation and functional needs, along with preliminary cost opinions that will be developed and presented for GSD review. This document will describe the individual elements required for the architectural, engineering, public safety, environmental, and traffic issues associated with the proposed facility.

Task 3 – Design Development

Once conceptual plans have been approved by the GSD, Baker will refine the program and scheme to reflect findings in Schematic Design, and address ongoing client and team input. Preliminary plans and outline specifications, based on the approved schematic design and GSD comments, will be developed, along with an updated cost opinion and cut sheets for various architectural, civil, landscaping, and HVAC amenities for submission to the State Fire Marshall's Office. The Design Development submittal will also be presented to the GSD at this time for review and approval.

Task 4 – Comprehensive Construction Documents

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 will be 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. The construction plans, specifications, and final cost opinion with implementation priorities will be presented for GSD review.

Task 4a – Project Bid Evaluation

During this phase, if needed, Baker will assist with 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 GSD.

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.

Task 5 – Construction Phase Services

1. Review contractor proposals and assist in evaluating best value to the GSD.
2. Review shop drawings and submittals for conformance to the design requirements. Provide periodic site observations to assure GSD that the work is proceeding in accordance with the design intent.
3. Answer requests from the contractor to clarify design or address unanticipated field issues.
4. Review contractors' requests for payment for congruence with actual installed work.
5. Observe contractors' construction development to achieve the designed effect.
6. Develop a punch list at substantial completion.
7. Perform final inspection for acceptance.
8. Finalize the project close-out documents.



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 reviews, 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 reviews, requests for information, pay requests, and all other construction-related correspondence that is the responsibility of the Project Manager. 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.

Task 5a – 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 personnel to ensure that the facility and project site are complete and in a clean condition prior to releasing the Contractor, as well as to ensure that the occupants are completely familiar with the systems operation. Baker will collect and deliver to GSD 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 GSD will be encouraged to contact the Baker Project Manager, Mr. Bolen, 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.

Quality Management Plan

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

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

Quality Planning is done up front. Quality Assurance and Quality Control are continuous over the life of the project.

Prior to the start of work, Mr. Bolen will develop the Quality Control Plan (QCP) as a part of the overall Project Management Plan. He will review the QCP with Quality Assurance/Control Manager, Mr. Deffenbaugh, and gain concurrence with the appropriate State representatives. Among other items, the QCP outlines all project procedures, routing of correspondence, design criteria, quality assurance and quality control procedures, and submittal requirements.

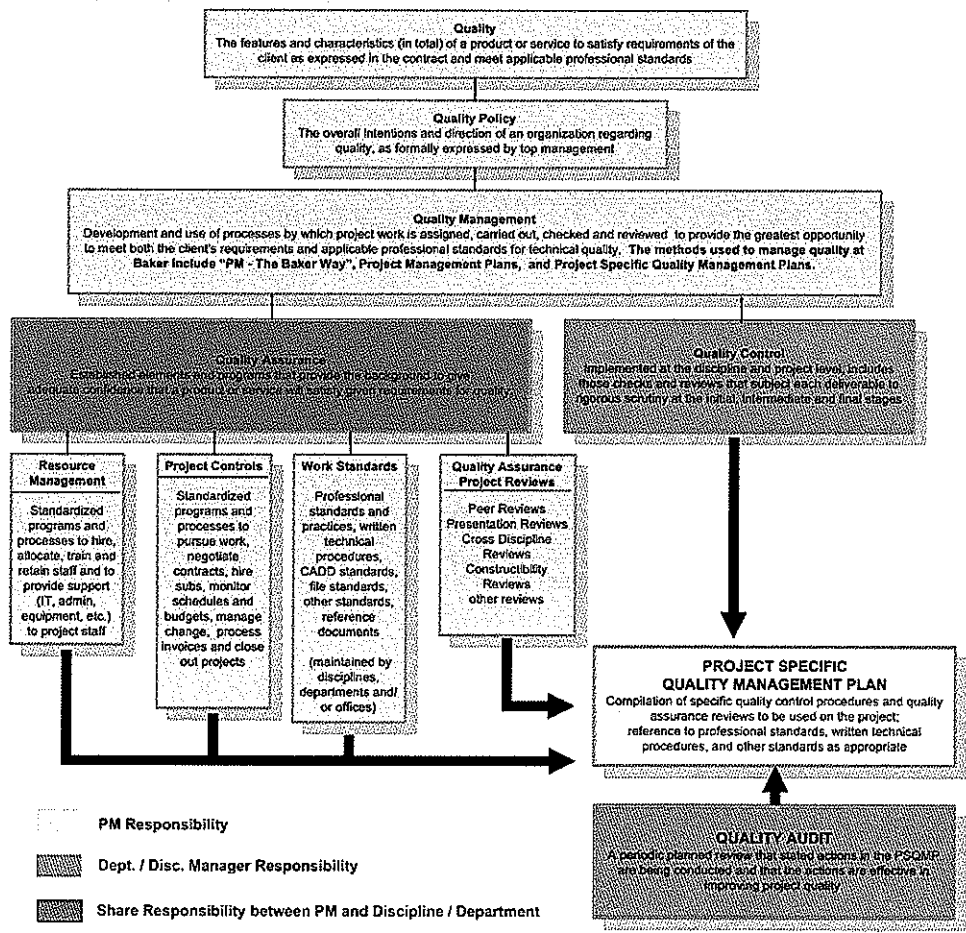


Quality Control Procedures for Plans, Specifications, and Design Analysis, and Electronic Documents

Our procedures consist of the following steps that are performed at specified milestones and submissions:

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

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





4.2.2. Firm/Team Qualifications

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

Firm name and address: **Michael Baker Jr., Inc.**
5088 West Washington Street,
Second Floor
Charleston, West Virginia 25313
Phone: 304-769-0821

Contacts: Principal-In-Charge, Russell Hall, PE, PS
304-769-2154 (Direct)

Project Manager, Ron Bolen, RA, AIA
304-769-2133 (Direct)

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

Baker's team of professional and technical personnel will be led by Mr. Ron Bolen, RA, AIA. Mr. Bolen is currently serving the State of West Virginia as the lead architect for its Campus Master Planning and Architectural and Engineering Services for the State Capitol Complex. He and many of Baker's team members are intimately familiar with the state complex, including the need for the proposed day care center to serve the State of West Virginia's many employees. Mr. Bolen is supported by a team of architects and engineers that are experienced with the policies, procedures, and work processes of the State, as well as for day care and child development centers.

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

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

Over the last decade, Baker has designed several new, as well as renovations to, Child Development Centers for our government clients. Facilities have been designed for the infant to pre-school ages, for elementary school age students, as well as for junior-high and high school students. Projects have included: performing Design Charrettes with all project stakeholders to develop programming and planning documents; preparing conceptual designs and Design/Build RFP documents for bidding by design/build delivery teams; preparing designs and design-bid-build construction documents for traditional project delivery; and preparing designs as the designer-of-record on design/build teams for final project delivery, including construction administration services to ensure the projects' design intent remains intact.

Baker is a full-service planning, architectural, engineering, and construction management firm. All services required for the successful completion of this project will be provided using our in-house professionals. No subconsultants are proposed as part of the Baker Team. However, if the State Department of Administration desires the addition of any particular subconsultant that will add value to the project, Baker remains open to discussing the addition of other supplementary service-providers.



Examples of our recent project experiences for the infant-to-elementary age groups are provided at Section 4.2.4. of this submission. In addition to these representative projects, Baker has also provided architectural and engineering services for other similar facilities; representative projects are summarized below:

Repair Child Development Center at the U.S. Naval Academy, Annapolis, Maryland: As a subconsultant, Baker performed civil and structural engineering for the repair of the Child Development Center, Building 298NS, at the Naval Academy. Baker provided studies, designs, plans, specifications, calculations, and cost estimates for new fencing for the playgrounds, providing accessible walkways for the buildings and play areas, and providing structural details for new doorways and windows throughout the structure.

Civil Site Design Service for Children's Medical Center; Dallas, Texas: Baker performed civil site design services for driveway and pedestrian improvements to the hospital parking facilities. Designs included restricting turns, hooded driveway design, and 3,000 linear feet of pedestrian facilities. Baker evaluated the site for safety, vehicle and pedestrian traffic patterns, and hospital master plans to provide designs for improvements to vehicle and pedestrian safety.

Miscellaneous Studies and Designs for Elementary Schools: Miscellaneous studies were prepared to assist in prioritizing projects at schools that support Fort Bragg. Design analyses, cost estimates, and analyses of comparable design solutions, and building code evaluations were prepared for the following projects. Due to the historic nature of the property, the work required approval by the State Historic Preservation Office, as well as coordination with the Academy's Master Plan.

- Roof Replacement and Flooring, and HVAC and Controls Systems Upgrade at Bowley Elementary
- Improve Stormwater Drainage Issues and HVAC System Rehabilitation at Devers Elementary School
- HVAC System Replacement at Irwin Middle School
- HVAC System Replacement at Murray Elementary School
- Kitchen Area Renovations and HVAC System Replacement at Butner Elementary School
- HVAC System Replacement at Pope AFB Elementary School
- Relocate Refrigeration and HVAC System Replacement at McNair Elementary School
- HVAC System Replacement at Holbrook Elementary School

Expertise with Contract Documents and Specification Preparation

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

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

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

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



response planning and management, and the full complement of program management and construction management services.

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

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

- f. *Provide evidence of the firm's ability to formulate designs in conformance with all local, state, and federal regulations applicable to the project. These requirements shall include building and life safety code requirements and NFPA requirements.*

The Capitol Daycare Center design will comply with all regulations including: State of West Virginia and City of Charleston Zoning Ordinances (Section 22-040-08); State of West Virginia Fire Codes and NFPA regulations; the International Building Code (IBC); West Virginia Health & Human Resources, Division of Early Care and Education; West Virginia Department of Education; local electric utility company (AEP) requirements (where applicable); and the requirements of the National Electrical Code and the National Electrical Safety Code.

While developing the West Virginia Capitol Complex Master Plan, it was necessary to review the current campus utilities including electric power and other in-ground service feeds. Baker has worked with representatives from American Electric Power Company regarding power feeds both to and around the campus, the West Virginia Office of Technology regarding campus fiber optic cabling, Verizon Corporation on phone lines, and the GSD regarding private power feed to campus buildings and site electric power and lighting feeds.

The lighting design development will consider the City of Charleston Zoning Ordinance as it may relate to light trespass and light pollution and will include any applicable requirements outlined in the Illuminating Engineering Society of North America (IESNA) Publication RP-33-99, Lighting for Exterior Environments; and Publication DG-13-98 Selection of Photo-controls for Outdoor Lighting Applications. The project manager and project staff have worked closely with the WV State Fire Marshal's office. We will coordinate throughout the project for a smooth review process with that state agency and other agencies having jurisdiction.

- g. *Provide a description of any litigation or arbitration proceedings, including vendor complaints filed with the State's Purchasing Division, relating to the firm's delivery of design services, if applicable.*

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



Ron Bolen, RA, AIA

Project Manager

Mr. Bolen brings over 38 years of design and project management experience to the project. He focuses his time on design and coordination with the client while maintaining a close relationship with the design team. From the early planning stages to construction implementation, Mr. Bolen's projects are the result of collaborative problem solving with design team professionals and project stakeholders. He recently managed a child care center project for the Shining Light Celebration Church in Charleston, WV. Mr. Bolen is currently serving as architect for the West Virginia General Services Division's project for Campus Master Planning and Architectural and Engineering Services for the State Capitol Complex, and for the rehabilitation design of dozens of restrooms in the historic State Capitol building. Over the past decade, he assisted seven West Virginia counties in the development of comprehensive education facilities plans. This effort involved assessing the education facilities in each county, developing maintenance and repair plans and cost estimates, as well as ten-year facility plans. Mr. Bolen served as project lead programming and pre-design for several new projects on West Virginia University's Morgantown Campus.

Years with Baker: 2

Years with Other Firms: 36

Education

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

Licenses/Certifications

Registered Architect, West Virginia,
1999

Relevant Experience

New Child Care Center, Charleston, West Virginia. *Shining Light Celebration Church.* Project Manager. Mr. Bolen provided services from programming through contract document preparation, discipline and consultant coordination, client relations, and construction administration. Completed in 2006, Mr. Bolen designed a new 12,000-square-foot Child Care Center for ages infants through toddlers, meeting all required state guidelines. The project included toddler activity rooms, preschool rooms, kitchen/dining, library, classrooms, nursery, administrative offices, restrooms, and auxiliary spaces. An integrated classroom intercom telephone and program system, a closed circuit television, and perimeter security systems were also designed.

Comprehensive Education Facilities Plans (CEFP), West Virginia. Mr. Bolen assisted in the development of the various Counties' Facilities Plan for the ten-year period of 2000-2010. The plans included evaluation of all existing facilities, plans for bringing existing facilities up to current codes and guidelines, cost estimates to bring facilities up to current standards, and final planning scenarios. The following are counties in West Virginia that Mr. Bolen assisted in the development of their CEFP: Nicholas; Cabell; Wetzel; and Raleigh (required update of the Comprehensive Education Facilities Plans (CEFP) 2000-2010). Other counties that Mr. Bolen developed the CEFP plan in conjunction with educational component of another firm in the development of their CEFP: Pocahontas; Marshall; and Monroe.

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

West Virginia State Capitol Restroom Renovations. *State of WV General Services Division.* Architect. Responsibilities included architectural design and coordination with the team during design and construction, and cost estimating project. The design was for rehabilitating 31 restrooms in the historical West Virginia State Capitol



building. Baker is leading the planning study, assessing the facilities and their conformance to current code requirements and code-required capacities, compliance with Americans with Disabilities Act requirements, quantification of the building occupancy during normal and peak periods, and an evaluation of gender distribution of restrooms within the capitol. Baker will provide design, construction sequence, and scheduling recommendations. Upon approval of the design, Baker will prepare construction documents and provide construction administration services for the renovation of three restrooms on the basement level.

West Virginia Army National Guard - Tag Wing Improvement, Charleston, West Virginia. *State Army National Guard Headquarters.* Architect. Responsibilities included providing a complete design and construction administration services for architectural improvements of the first floor of the Office of the Adjutant General (TAG), and to provide MEP and HVAC design improvements for the entire TAG Wing that includes a child daycare center, 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 Berlin McKinney Elementary School. *Wyoming County Board of Education.* Mr. Bolen provided Project Manager services from pre-design through all phases of document preparation, consultant coordination, client relations, and construction administration. This major renovation design repaired classrooms, toilets and auxiliary spaces for an existing school that was flooded and provided the project within the required state guidelines.

A/E Services for Beckley Elementary School and Daniels Elementary School. *Raleigh County Board of Education.* Mr. Bolen provided Project Manager Services from pre-design through all phases of document preparation, consultant coordination, client relations, and construction administration. Beckley Elementary was a new facility designed to replace two existing schools. Daniels Elementary School involved a major renovation and addition design, which also replaced two existing schools. Both projects met all required state guidelines and were funded by the School Building Authorities.

A/E Services for Elkins Middle School. *Randolph County Board of Education.* As Job Captain, Mr. Bolen provided services from design development through all phases of document preparation, and consultant coordination. This addition and renovation design to the existing facility provided needed classroom, and toilet facilities within the required state guidelines.

A/E Services for Cheat Lake Elementary and Middle School. *Monongahela County Board of Education.* Mr. Bolen was Project Job Captain from pre-design through all phases of document preparation, including discipline and consultant coordination, and client relations. Design for a major addition and renovation to the existing facilities were prepared to replace four existing schools with the renovated facilities. The two schools shared the dining / kitchen facilities. The projects met all required state guidelines.



Russell E. Hall, PE, PS

Principal-In-Charge

Mr. Hall, Assistant Vice President, is Office Manager of Baker's Charleston, WV office. He is an experienced 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. His strengths include organizing and managing project teams, quality control and quality assurance, and problem resolution. He provides overall direction and maintains direct communications with all clients.

Years with Baker: 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

Relevant Experience

Campus Master Planning and Architectural and Engineering Services for State Capitol Complex, Charleston, West Virginia.

State of WV General Services Division. Principal-In-Charge. Responsible for oversight of the project management, project finances, schedules, and quality control. Baker is providing comprehensive master planning services, plans and construction specifications, and construction administration for improvements to the historic West Virginia State Capitol campus, which includes the proposed daycare center. Master planning services include plans for expansion, location of new buildings, pedestrian and traffic circulation, landscaping, utilities, and site security. Baker is also providing construction plans and contract administration services for some of the security and landscaping improvements.

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

West Virginia Army National Guard - TAG Wing Improvement, Charleston, West Virginia. *State Army National Guard Headquarters.* Principal-In-Charge. Responsible for oversight of the project management, project finances, schedules, and quality control. Baker performed complete planning, design, and construction management services for 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.

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



Flood Protection Options Report for Bonham Elementary School, Kanawha County, West Virginia. *West Virginia Division of Homeland Security and Emergency Management.* Principal-In-Charge. Responsible for oversight of project finances, schedules, and quality control. Baker was retained to prepare a report to address flood protection options for Bonham Elementary School.

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

Gillenwater Property, Scott Depot, West Virginia. *Robinson & McElwee, PLLC.* Principal-In-Charge. Responsible for oversight of the project management, project finances, schedules, and quality control. The law firm of Robinson & McElwee, PLLC, engaged the services of Baker to provide a review of previously submitted stormwater calculations for a proposed subdivision near Scott Depot in Putnam County, West Virginia. Baker reviewed the stormwater permit on file with the West Virginia Department of Environmental Protection, as well as the pre- and post-construction stormwater calculations.

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

Fort Pleasant Access Road Project, Moorefield, West Virginia. *Fort Pleasant Farms, Inc.* Principal-In-Charge. Responsible for oversight of project finances, schedules and quality control. Baker prepared contract construction plans and related documents for a three-lane access road connecting Corridor H to private property in Moorefield, WV.

Fort Pleasant Farms, Two-Lane Road Design, Moorefield, West Virginia. *Fort Pleasant Farms, Inc.* Principal-In-Charge. Responsible for oversight of project finances, schedules and quality control. This project involved the study, design and final construction plan development for a new two-lane access road approximately 1,500' in length. This access road was designed to connect a commercial/residential development to the Moorefield Interchange on Corridor H.

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 the project management, project finances, schedules, and quality control. Baker provided project management, environmental, and location studies, permitting, preliminary, and final design, as well as construction phase services for this 878-foot, 6-inch long network tied arch that is ranked as the longest of its type in the United States, and one of the longest bridges in the entire world.

City of Charleston Bridges-Engineering Consulting Services, Charleston, West Virginia. *City of Charleston, West Virginia.* Principal-In-Charge. Responsible for oversight of the project management, project finances, schedules, and quality control. Baker's Charleston, West Virginia office provided various services for the City of Charleston. Baker reviewed existing inspection reports, performed bridge inspections, and recommended and prioritized repairs for 13 bridges owned by the city.



Ralph T. Deffenbaugh, PE, LEED AP

QA/QC Manager

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 government, commercial, military, public, and private clients. In 2007, Mr. Deffenbaugh received his LEED® accreditation from the U.S. Green Building Council. His experience includes serving as project manager, quality 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.

Mr. Deffenbaugh will serve as co-QA/QC Manager and be responsible to administer Baker's quality processes. As Director of Baker's Facilities Engineering services, Mr. Deffenbaugh is responsible for all design projects under his management, ensuring quality and client satisfaction.

Relevant Experience

Child Development Center, Oceana Naval Air Station, Virginia

Beach, Virginia. *Naval Facilities Engineering Command, Atlantic Division.* QA/QC. Responsibilities included coordinating the quality assurance reviews for architectural, mechanical, and electrical drawings. The new Child Development Center is a one-story facility, of approximately 29,000 square feet. The facility, which accommodates 280 children, is comprised of five infant activity rooms, four pre-toddler activity rooms, four toddler activity rooms, six preschool rooms, a commercial kitchen and laundry, a two-story reception lobby and other administrative spaces. Four outdoor play areas, divided by age group, are provided.

Child Development Center, Naval Base San Diego, San Diego, California. *Soltek Pacific Construction Company.* QA/QC. Responsibilities included coordinating the quality assurance reviews for architectural, mechanical, and electrical drawings. Baker provided design services for a 31,000-square-foot Child Development Center for the Navy at Naval Base San Diego, California. The single-story structure accommodates 306 infants through pre-school children, and approximately 60 staff members.

Child Development Center, Hill Air Force Base, Utah. *U.S. Army Corps of Engineers, Sacramento District.* QA/QC. Responsibilities included coordinating the quality assurance reviews for architectural, mechanical, and electrical drawings. Baker provided design management, engineering, and architectural services for this design/build project to construct an additional Child Development Center at Hill Air Force Base. The one-story, 35,579-square-foot facility accommodates 266 infants through pre-school children, with future build-out capabilities to increase the capacity to 304 children.

Child Development Center and Central Issue Facility, Fort Drum, New York. *U.S. Army Corps of Engineers, New York District.* QA/QC. Responsibilities included coordinating the quality assurance reviews for architectural, mechanical, and electrical designs. Baker provided design charrettes, programming data, and

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:

- West Virginia, 2004
- Pennsylvania, 1991
- Louisiana, 2009
- Ohio, 2004
- Massachusetts, 1992
- Virginia, 1991
- Maryland, 1996
- Kentucky, 2004

NCEES Certified, 1986

LEED Accredited Professional, 2007



architectural and engineering services to assist the Army in preparation of programming documents for a Child Development Center and a Central Issue Facility. The Child Development Center for pre-school children under six years of age is planned for construction to provide the required care for 100 children.

Child Development Center Complex Design/Build RFP Documents, Fort Drum, New York. *U.S. Army Corps of Engineers, New York District. QA/QC.* Responsibilities included coordinating the quality assurance reviews for architectural, mechanical, and electrical drawings. Baker provided architectural and engineering services for the preparation of Design/Build RFP Documents for a second Child Development Center Complex to be constructed at Fort Drum, New York. The 24,050-square-foot complex for 232 children serves ages six weeks to five years to include infants, pre-toddlers, toddlers, and pre-school age children.

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

Research and Development Facility, Institute for Scientific Research, Fairmont, West Virginia. *BE & K Building Group. Technical Manager.* Coordinated final project closeout for the engineering designs and completed LEED® documentation. Using a design/build delivery method, a new 263,000-square-foot, five-story Research and Development Facility was constructed for The Institute for Scientific Research (ISR). The facility was outfitted with advanced technology features and amenities that included: distance learning centers; voice/data systems; two-story exhibit hall; heavy research floor with high bay area; prototype workshop and 10-ton crane; fitness center; and full-service kitchen/restaurant. In addition to the environmentally sensitive design features, a number of unique energy-efficient strategies were used to accomplish LEED® certification.

Conceptual Design of New High School, Fort Knox, Kentucky. *U.S. Army Corps of Engineers, Louisville District. QA/QC Manager.* Responsibilities included providing an Interdisciplinary Technical Quality Review for structural engineering and for the 35%, conceptual design phase submission.

Quality Control Database, Confidential Location. *Confidential Client. QA/QC.* Responsibilities included conducting independent technical reviews of task submissions. Baker developed a comprehensive, interactive Quality Control Database including Lessons Learned Checklists that is organized by CSI specification section numbers and customizable to the specific scope of each project. Output reports can be sorted by project phase (i.e., conceptual, preliminary, detailed, etc.) or reviewing organization (i.e., consultant, owner representative, field representative, etc.), and replicated when appropriate (slump test signoffs, pressure test signoffs, etc.). The reports will enable the design and construction team to generate checklists for each discipline or trade that will improve quality and minimize errors, as well as confirm compliance with required steps and/or tests to obtain desired results.



Patrick Fogarty, PE, PS

Site Civil Engineer

Mr. Fogarty has over 24 years of civil engineering project design and management experience. He is responsible for the technical and management aspects of civil design and surveying projects within Baker's Charleston, WV office. Mr. Fogarty has designed and managed projects in numerous disciplines including civil, structural, and transportation engineering; site development planning; and surveying. These projects have included buildings, retail/commercial site preparation, airports, streets/highways, bridges, parking lots, retaining walls/foundations, sanitary systems and structures, as well as boundary and topographic and photogrammetric surveys. Duties included field surveying, drawings and specification preparation, design, design drafting, construction inspection, quality control testing, shop drawing review, project management, contract administration and report preparation. Management duties include financial planning, management and staff utilization for two departments, human resource planning, marketing, and strategic planning.

Relevant Experience

Campus Master Planning and Architectural and Engineering Services for State Capitol Complex, Charleston, West Virginia.

State of WV General Services Division. Project Manager.

Responsibilities included project management of the planning and infrastructure analysis and the coordination of six specialized subconsultants. Baker is providing comprehensive master planning services, plans and construction specifications, and construction administration for improvements to the historic West Virginia State Capitol Campus. Master planning services include plans for expansion, location of new buildings, pedestrian and traffic circulation, landscaping, utilities, and site security. Baker is also providing construction plans and contract administration services for security and landscaping improvements.

West Virginia State Capitol Restroom Renovations, Charleston, West Virginia.

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

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

Licenses/Certifications

Professional Engineer:

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

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



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

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

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

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

Gillenwater Property, Scott Depot, West Virginia. *Robinson & McElwee, PLLC.* Project Manager. Review of design calculations and report preparation. The law firm of Robinson & McElwee, PLLC, engaged the services of Baker to provide a review of previously submitted storm water calculations for a proposed subdivision near Scott Depot in Putnam County, West Virginia. Baker reviewed the stormwater permit on file with the West Virginia Department of Environmental Protection as well as the pre- and post-construction stormwater calculations.

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

Parking Lot Improvement, West Virginia. *Habitat for Humanity of Kanawha & Putnam County.* Project Manager. Responsible for project management for the design of a bituminous parking lot incorporating a bio-detention area (rain garden) for the collection of stormwater.



John Dziubek, PE

Geotechnical Engineer

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. Mr. Dziubek's extensive experience conducting geotechnical investigations includes projects for buildings and foundations, dams, hydraulic structures, mines, and marine structures. He has managed both civil and geotechnical departments at large, multi-disciplined engineering firms and is skilled in environmental remediation design. Additionally, Mr. Dziubek has been an instructor for university-level Geotechnical Engineering Courses.

Relevant Experience

Fort Henry Business & Industrial Centre, Triadelphia, West Virginia. *Ohio County Commission.* Task Manager. Responsible for reviewing existing geological information and mining records to evaluate site grading for a large retail shopping center. Geotechnical analyses included slope stability and drainage. Baker completed a three-phase conceptual plan for the 440-acre property located between I-70 and State Route 40 in Triadelphia, West Virginia. The project involved conceptual grading plans (6M CY of earthwork) with roadways, utilities, and stormwater management. Baker also completed construction cost estimates for each phase.

Lake Lynn Recreational Facilities, Spring Hill Township, Fayette County, PA and Monongalia County, West Virginia. *Allegheny Power System.* Geotechnical Engineer. Responsible for analyzing augercast pile foundation for a wooden glu-lam bridge over a lake inlet crossing. Foundation soil was loose-end dumped cinder embankment from an old railroad line. Baker worked along with other Allegheny Power consultants to plan, survey, and design the 4.5-mile hike/bike trail and associated facilities known as the Lake Lynn Recreational Facility. Baker provided site reconnaissance and geotechnical investigation, designs for lakeshore and trail stabilization measures, construction cost estimates, prepared construction drawings and technical specifications, and attended meetings during the preliminary and final design phases of the project.

The Mall at Robinson Commercial Development, Robinson Township, Pennsylvania. *Forest City Enterprises, Inc.* Geotechnical Engineer. Responsible for managing geotechnical investigations of mass grading and building foundations at a large retail shopping center and indoor mall in Allegheny County. Test boring investigations and foundation reports were prepared for mall buildings, motels, home improvements, and discount stores. Settlement monitoring of fills were performed. Stability analyses of fills and pavement recommendations were conducted. Baker has been actively involved with a wide variety of engineering and site design tasks on this large commercial development (approximately 700 acres) surrounding Robinson Towne Center. Robinson Mall, a state-of-the-art, 1.2 million-square-foot regional mall, is located in Robinson Township, a suburb of Pittsburgh, Pennsylvania. Its anchors include Macy's (formerly Kaufmann's), Sears, and JCPenney department stores and a Dick's Sporting Goods store. This \$130,000,000 construction project is centered in the fastest growing corridor in the region. During this multi-year project, Baker provided a wide range of engineering studies, permitting, conceptual site layout, final engineering design, and construction-phase services to facilitate development of the property.

Retail Strip Center at the Pointe, LaFayette Plaza, North Fayette Township, Pennsylvania. *Silk & Stewart.* Geotechnical Engineer. Responsible for supervising settlement monitoring program of compacted fill. Assessed

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



completion of embankment consolidation and advised when building construction could begin. Baker was retained to perform the design of the first of three multi-tenant commercial strip centers at The Pointe at North Fayette development. The strip center shares an access drive with a Home Depot, and was designed to maximize the usable area within the lot while providing for access to both the Home Depot and adjacent retail buildings. This project included the preparation of an existing conditions plan, site plan, horizontal control plan, grading and storm drainage plan, utility and paving plan, landscaping plan, soil erosion and sedimentation control plan, written technical specifications and other miscellaneous bid documents as required for both approvals and construction. Baker also coordinated with the Developer throughout the construction phase, responding to requests for information, performing site inspections, and providing general engineering support until the project's completion.

North Shore Roadway System, Pittsburgh, Pennsylvania. *Sports and Exhibition Authority of Pittsburgh and Allegheny County.* Task Manager. Responsible for managing preliminary geotechnical engineering report requiring incorporation of over 150 pre-existing test borings historically drilled for major adjacent buildings and bridges. Baker redesigned major portions of the roadway network on the North Shore in downtown Pittsburgh, Pennsylvania, to serve two new sports stadiums. Design for the highly urbanized area, which required complete reconfiguration of the infrastructure, met opening day deadlines. The project encompassed approximately 15,000 feet of roadway and eight signalized intersections and included the design of a three-span pedestrian underpass structure and development of plans for warrant analysis timing, phasing, and interconnection; maintenance and protection of traffic; and landscaping and lighting.

Training Center for Stryker Brigade Combat Team, Hollidaysburg, Pennsylvania. *US Property and Fiscal Office for Pennsylvania.* Task Manager. 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. The 38,861-square-foot training facility is designed to be of permanent masonry construction with brick and concrete block units and concrete floors, and a standing seam metal roof, and included an energy management control system as well as mechanical and electrical systems equipment. The facility was designed to achieve a Certified LEED® sustainable rating.

Gypsy Bridge (over West Fork River) Geotechnical Services, Gypsy, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Task Manager. Responsible for managing the test boring program for bridge and pier substructures, mine void evaluation within the Pittsburgh Coal seam, and for two reinforced soil slopes (RSS) to support the approach embankments. Oversaw the laboratory testing program and dilatometer testing. Supervised analyses of shallow and deep foundations and external stability analyses for the RSS and MSE alternatives. Assisted in the design of two RSS's. Prepared Geotechnical Reports for the Type, Size & Location (TS&L) and the Final Detail Plan Submissions. This project involves the relocation and replacement of the Gypsy Bridge to the downstream side of the existing bridge, which has served US 19 over the West Fork River at Gypsy, West Virginia for over 80 years.

On-Call Engineering and Architectural Services, Wheeling-Ohio County Airport (HLG), Wheeling, West Virginia. *Ohio County Commission.* Geotechnical Engineer. Responsible for geotechnical oversight for a pavement and subgrade investigation of an existing primary runway. The investigation included 10 test borings, geotechnical testing, and a report that defined the condition of the asphalt pavement, slag base course, fill and soil, top of bedrock, and provided pavement design and sub-grade preparation recommendations. Since 2001, Baker has provided on-call engineering and architectural services at Wheeling-Ohio County Airport under a comprehensive engineering services agreement. Typical tasks performed include feasibility studies and surveys, bituminous pavement design, runway lighting design, civil site design, construction cost estimation, and construction management and inspection services.



Laura Cox, RLA, ASLA

Landscape Architect

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

Experience

Campus Master Planning and Architectural and Engineering Services for State Capitol Complex, Charleston, West Virginia.

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

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

St. Albans High School, St. Albans, West Virginia. *St. Albans School Board.* Staff Landscape Architect/ Civil Designer. prepared complete phased civil and site construction drawings for entire campus plan.

Lincoln County High School, Hamlin, West Virginia. *Lincoln County Board of Education.* Staff Landscape Architect/ Civil Designer. Prepared complete phased civil and site construction drawings for the entire campus plan, including design of DOH roadway and extensive site grading.

Southside Elementary/Southwest Middle School, Huntington, West Virginia. *Cabell County Board of Education.* Staff Landscape Architect/ Civil Designer. Prepared complete phased civil/site/landscape construction drawings for an urban campus plan, which included a sustainable underground storm collection system.

Years with Baker: 3

Years with Other Firms: 29

Education

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

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

Licenses/Certifications

Landscape Architect, Virginia, 1987

NICET III Transportation-Highway
Construction, West Virginia, 1983



Milton Middle School, Milton, West Virginia. *Cabell County Board of Education.* Staff Landscape Architect/Civil Designer. prepared complete phased civil/site construction drawings for a rural campus plan, which included extensive site grading along with a sustainable underground storm collection system.

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

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

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

Parking Lot Improvement, West Virginia. *Habitat for Humanity of Kanawha & Putnam County.* Project Coordinator. Responsible for design and construction document preparation. She performed complete planning and design services for a new parking lot that included a rain garden.

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



Ronald Kretz, RA, AIA, LEED Green Associate

Architect

Mr. Kretz is a registered architect with over 20 years of experience as principal, project manager, and designer. He is A/E Operations Manager of Baker's North Region Facilities Group, with direct management responsibility over all architectural and building engineering personnel, project designs, quality processes, and office functions. As Operations Manager, Mr. Kretz is responsible for all design projects under his management, ensuring quality and client satisfaction.

Mr. Kretz's project experiences includes various building types for educational, institutional, commercial, health care, military, 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.

Years with Baker: 11

Years with Other Firms: 9

Education

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

Licenses/Certifications

Registered Architect:

- Pennsylvania, 1993
- Maryland, 2010
- Ohio, 2010
- Florida, 1995
- Colorado, 1997
- Delaware, 2010

LEED Green Associate

Relevant Experience

Community Child Development Center, Confidential Location. Confidential Client. Architect.

Responsibilities included architectural design and documentation and construction supervision assistance. Consolidating two inadequate facilities, Baker designed and provided construction phase services for a new, one-story child care center to accommodate 244 children. To ensure age-appropriate facilities for children of all ages, the building is zoned, with specialty suites for infant, toddler, pre-kindergarten, kindergarten, grades one through six, and grades seven through twelve. A new outdoor play area also provides recreation for children of varying ages. Design and construction of the project also included provision of utilities to the site, relocation of an existing road, and demolition of an existing structure.

Educational Facilities Master Plan, District of Columbia Public Schools, Washington, DC. U.S. Army Corps of Engineers, Baltimore District. Architect. Responsibilities included site visits and performing condition assessments with associated reports. Project included development of a system-wide master plan for the school system, which includes 146 schools and 40 other facilities, to provide a flexible management tool for tracking and prioritizing facility deficiencies that can respond to budget and policy changes, and to provide facilities that enhance the educational process. Issues addressed include facility, educational, real estate, budget, and schedule issues.

Project Head Start Daycare Center, Delevan, New York. Cattaraugus County. Job Captain. Responsible for completing all design, documentation, and administration of a 3,000-square-foot day care center. Project consisted of building a 600-square-foot addition and renovating an existing 2,400-square-foot structure into a 34-student, two-classroom, day care facility with full kitchen and support offices.

Children's Hospital of Pittsburgh, North Satellite, Wexford, Pennsylvania. Children's Hospital. Job Captain/Project Manager. Responsible for a new outpatient surgical/clinical satellite facility for Children's Hospital in Pittsburgh's north suburb. Built into the hillside, the project consists of a 30,000-square-foot upper level for the hospital and a corresponding lower level for future tenants and mechanical service areas.



Responsibilities included completion of schematic and design development packages, land development submission to the local municipality, coordination of over \$2,000,000 of equipment and furniture, and oversight of support staff.

ADA Campus Survey, California, Pennsylvania. *California University of Pennsylvania.* Project Architect. Complete study of the entire main campus, which included 38 buildings totaling 1,300,000 square feet, and all outdoor public areas for compliance with the Americans with Disabilities Act (ADA) Guidelines.

Historic Restoration of John Sutton Hall, Indiana University of Pennsylvania (IUP), Indiana, Pennsylvania. *Indiana University of Pennsylvania.* Architect. Responsibilities included assisting with architectural design and detailing, and construction phase services. Baker designed the Phase I historic restoration of the first building on the IUP campus, the prestigious "Old Main" constructed in 1875, listed as a landmark on the National Register of Historical Places. The 135,000-square-foot building contains offices for human resources, university housing, and admissions. Major project components included replacement of the heating and ventilation system, addition of an air conditioning system; interior space planning and relocation of departments; a new service entrance and freight elevator; replacement of all windows with energy-efficient units capable of meeting historic guideline standards; toilet room, including upgrades consistent with the Americans with Disabilities Act; and exterior work, including new storm drains, sanitary lines, fire lines, water lines, foundation drains, site lighting, walkways, handicapped-accessible entrances, and other exterior treatments.

Campus-Wide Life Safety System Upgrades, University of Pittsburgh, Pittsburgh, Pennsylvania. *University of Pittsburgh.* Architect. Lead Design Architect responsible for documentation of life safety upgrades at the University of Pittsburgh's historic Cathedral of Learning. Baker provided architectural and engineering services related to campus-wide evaluations, assessments, design and construction documents, cost estimates, and construction phase services for the campus-wide life safety system for nearly 40 buildings throughout the University of Pittsburgh's, Oakland Campus. Design, construction documents, and construction phase services were also provided for a campus-wide electronic security system. These projects brought the buildings into compliance with the City of Pittsburgh Building Code, BOCA 1990, Pittsburgh Code of Ordinances' Titles Eight and Ten, and the BOCA National Existing Structures Code 1987.

Open-End Contract for Architectural/Engineering Design Services, Clarion University of Pennsylvania, Clarion, Pennsylvania. *Clarion University.* Architect. Responsible for project management and architectural duties for all facility-related task orders. Responsibilities included the oversight of all facility projects and related project management duties. Also responsible for the construction administration phase. A variety of architectural, engineering, and construction management services were provided to Clarion University of Pennsylvania under two separate open-end, task-order contracts.

Blennerhassett Island Bridge, Appalachian Corridor D, Washington County, Ohio and Wood County, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Architect. Responsibilities included providing design assistance to the project architect. Baker provided project management, environmental and location studies, permitting, preliminary and final design, as well as construction phase services for this 878-foot, 6-inch long network tied arch that is ranked as the longest bridge of its type in the United States and one of the longest bridges in the entire world.



Alana Pulay, IIDA, LEED AP

Interior Designer

Ms. Pulay is a hard working, energetic professional interior designer with comprehensive knowledge of architecture and the design industry with over seven 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.

Relevant Experience

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-square-foot 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, selecting finishes 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 that are involved within the school system. There was also collaboration with the project architect to align architectural elements with the floor pattern.

Erma Byrd Higher Education Center, Beaver, Raleigh County, West Virginia. Southern West Virginia Community and Technical College. 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 square feet on the main level and 3,300-square-foot of mechanical mezzanine. A teaching facility, the building itself is designed to be a teaching tool. Daylighting 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.

Martha Elementary School, Huntington, West Virginia, Cabell County Board of Education. Lead Interior Designer. Prepared finish boards and final construction documents. Met with Client to develop design concepts, and then began collaboration with the architects and engineers to develop a full set of construction documents and specifications. Selected finishes and furnishings. Due to strict budget, selecting finishes with patterns and color would play a critical role in the finished product.

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



Milton Middle School, Milton, West Virginia, Cabell County Board of Education. Lead Interior Designer. Prepared finish boards and final construction documents. Prepared complete construction drawings for rural campus plan, which included extensive sustainable design initiatives.

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 with 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 subconsultants, 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.

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 facility. Completed in August 2006, the new \$31.4 million facility provides 217,000 square feet of space 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.

Little Kanawha Bus Facility, Grantsville, Calhoun County, West Virginia. *West Virginia Division of Public Transit.* Interior Designer. Baker provided 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.

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.



Eamon Geary, LEED AP

Sustainable Design

Eamon Geary, LEED AP, has spent the past seven years working in the Pittsburgh-region, nationally, and internationally to encourage and support green development and curb greenhouse gas emissions. For Baker, Mr. Geary is serving as a LEED® Coordinator for all facility projects. His responsibilities involve overseeing and auditing aspects of Baker's designs and construction methods. In conjunction with the U.S. Green Building Council (USGBC), he provides third-party verification that projects used strategies aimed at improving performance for energy savings, water efficiency, emissions reductions, indoor air quality, and other impacts, thereby reducing our carbon footprint on our environment.

Mr. Geary held positions of project specialist for the Green Building Alliance (GBA) and program officer for ICLEI - Local Governments for Sustainability. During his tenure at GBA, he provided technical assistance to large-scale development projects interested in sustainable design and construction. His enthusiasm for sustainable design motivated a partnership with Pittsburgh City Council member Bill Peduto and led to two unique pieces of local legislation designed to encourage the development of green buildings in the City of Pittsburgh. Additionally, Mr. Geary served as project manager for the Pittsburgh Climate Initiative (PCI). PCI worked to develop a comprehensive carbon reduction strategy for the municipal, business, community, and higher-education sectors of the City of Pittsburgh. Governor Edward G. Rendell recognized the project with a Governor's Award for Environmental Excellence, stating: "Their leadership is inspiring."

In 2008, Mr. Geary was invited by the British Consulate to visit London as part of an international program intended to promote cooperation and thought-sharing among the nations and participants involved. He worked with ICLEI to develop a national-level sustainability initiative in the cities of Cleveland, Denver, and Pittsburgh to assist with the successful implementation of their greenhouse gas emission-reduction goals. Through assisting local governments, he also serves as a community resource for reducing greenhouse gas emissions.

Honors and Awards

2009 Governor's Awards for Environmental Excellence, Governor Edward Rendell

Publications

MBA's "Breaking Ground" magazine

Sierra Club's "The Sylvanian" periodical

Pittsburgh Climate Initiative Action Plan -

<http://www.pittsburghclimate.org/documents/PittsburghClimateActionPlan.pdf>

Green Building Alliance's 2007 and 2008 "Shades of Green" annual publication -

http://gbapgh.org/Shades_of_Green.asp

Teaching

Class Instructor, LEED Study Group - hosted by Green Building Alliance, held twice yearly

Years with Baker: 1

Years with Other Firms: 7

Education

B.A., 2005, Environmental Policy, Allegheny College

Licenses/Certifications

LEED Accredited Professional, Pennsylvania, 2007

Professional Affiliations

Green Building Alliance (GBA)

Leadership in Energy and Environmental Design (LEED)

Pennsylvania Environmental Council (PEC)

Sierra Club

U.S. Green Building Council (USGBC)



Erik Spicker, PE

Structural Engineer

Mr. Spicker is a structural engineer with experience in the design of educational, commercial, military, governmental, industrial, transit, 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. Mr. Spicker 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.

Relevant Experience

Child Development Center, Oceana Naval Air Station, Virginia Beach, Virginia. *Naval Facilities Engineering Command, Atlantic Division.* Structural Engineer. Responsibilities included providing technical QA/QC reviews of the structural engineering design. Baker provided design for a new 29,000-square-foot Child Development Center at Naval Air Station, Oceana. The facility accommodates 280 children, and features a commercial kitchen and laundry, a two-story reception lobby and other administrative spaces, along with outdoor play areas.

Gymnasium Addition at Brittin Elementary School, Fort Stewart, Georgia. *DDESS - Domestic Dependent Elementary and Secondary Schools.* Structural Engineer. Responsibilities included providing preliminary structural designs. Baker provided architectural and building engineering services for the design of a gymnasium to provide additional recreation and physical education space for Brittin Elementary School. The 3,500-square-foot facility includes a new gymnasium with equipment, bleachers, office, and toilets. Services included as-built drawing verification, condition assessments, and design submittals.

Mifflin Elementary School Addition, Pittsburgh, Pennsylvania. Structural Engineer. Design of a new two-story masonry and steel gymnasium, cafeteria, and mezzanine, as well as interior renovations to a historic school building.

Las Sendas Elementary School, Mesa, Arizona. Structural Engineer. Design of a new multi-building elementary school campus. Structure included steel and masonry buildings with steel walkway canopies. All structures were supported by shallow foundations.

Maxwell and Fort Allen Elementary School Additions, Hempfield, Pennsylvania. Structural Engineer. Design of two gymnasium and classroom additions, including steel and masonry framing.

Research and Development Facility, Institute for Scientific Research, Fairmont, West Virginia. *BE & K Building Group.* Structural Engineer. Responsibilities included the review of structural steel shop drawings and site visits to observe construction progression and to assess structural damage from a construction fire. Using a design/build delivery method, a new 263,000-square-foot, five-story Research and Development Facility was constructed for The Institute for Scientific Research. The facility was outfitted with advanced technology features and amenities that included: distance learning centers; voice/data systems; two-story exhibit hall; heavy research floor with high bay area; prototype workshop and 10-ton crane; fitness center; and full-service kitchen/restaurant. In addition to the environmentally sensitive design features, a number of unique energy-efficient strategies were used to accomplish LEED® certification.

Years with Baker: 7

Years with Other Firms: 8

Education

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

Licenses/Certifications

Professional Engineer, Oklahoma,
2008

Professional Engineer, New Jersey,
2008

NCEES Certified, 2008

Professional Engineer, Pennsylvania,
2000

Professional Engineer, Connecticut,
2008



Craig West, PE, LEED AP

Mechanical Engineer

Mr. West is Baker's Mechanical Engineering Manager with a background that includes project management and providing design and specifications for HVAC, plumbing, fire protection, piping, and process exhaust systems for educational, military, commercial, institutional, healthcare, and industrial facilities. He is responsible for all facets of the job, including client contact, project organization and management, load calculations, equipment/system selection, layout, developing department technical standards, supervision, fan static and pump head calculations, specifications, and sequences of operation. Mr. West has handled bidding, requests for information, meetings, shop drawings, construction situations, job progress, and project closeout. He is responsible for fee estimating, job cost control, and construction cost estimating. He has gained specialized experience in geothermal, DDC controls, clean rooms, and hospital work, including medical gases, labs, operating rooms, and isolation rooms. Mr. West has participated in five-step SAVE International Process value engineering studies.

Relevant Experience

Child Development Center, Oceana Naval Air Station, Virginia Beach, Virginia. *Naval Facilities Engineering Command, Atlantic Division.* Mechanical Engineer. Provided HVAC consulting services to the core design team. Baker provided design for a new 29,000-square-foot Child Development Center at Naval Air Station, Oceana. The facility accommodates 280 children, and features a commercial kitchen and laundry, a two-story reception lobby and other administrative spaces, along with outdoor play areas.

Community Child Development Center, Confidential Location. *Confidential Client.* Mechanical Engineer. Provided HVAC engineering and consulting during the construction phase. Consolidating two inadequate facilities, Baker designed and provided construction phase services for a new, one-story child care center accommodating 244 children. To ensure age-appropriate facilities for children of all ages, the building is zoned, with specialty suites for infant, toddler, pre-kindergarten, kindergarten, grades one through six, and grades seven through twelve. A new outdoor play area also provides recreation for children of varying ages. Design and construction of the project included provision of utilities to the site, relocation of an existing road, and demolition of an existing structure.

McDonald Elementary School, McDonald, Ohio. Mechanical Project Manager. Design of 58,000-square-foot OSFC Elementary School.

Campus Master Planning and Architectural and Engineering Services for State Capitol Complex, Charleston, West Virginia. *State of WV General Services Division.* Mechanical Engineer. Responsible for mechanical engineering services for this major state capitol master plan effort. Baker is providing comprehensive master planning services, plans and construction specifications, and construction administration for improvements to the historic West Virginia State Capitol Campus. Master planning services include plans for expansion, location of new buildings, pedestrian and traffic circulation, landscaping, utilities, and site security. Baker is also providing construction plans and contract administration services for some of the security and landscaping improvements.

Independence Marsh Environmental Teaching Center, Aliquippa, Pennsylvania. *Beaver County Conservation District.* Mechanical Engineer. Provided HVAC and plumbing design for this educational facility

Years with Baker: 9

Years with Other Firms: 16

Education

B.S., 1984, Mechanical Engineering,
Youngstown State University

Licenses/Certifications

Professional Engineer:

Connecticut, 2001

- West Virginia, 2000
- New Jersey, 2009
- Ohio, 1989
- Pennsylvania, 1990
- Virginia, 2002
- Utah, 2010

LEED Accredited Professional, 2008



with special emphasis placed on “green” design, utilizing waterless urinals, low-consumption plumbing fixtures, and a geothermal heating/cooling system. The facility is an earth-sheltered concrete structure containing a multi-purpose teaching room to accommodate 100 people for lectures and instructional purposes. The building systems include such environmentally sensitive features as a geothermal heat pump heating/air-conditioning system, natural daylighting, passive solar heating, a variety of low-flow plumbing fixtures (including a demonstration waterless urinal), and a roof-top garden.

Research and Development Facility, Institute for Scientific Research, Fairmont, West Virginia. *BE & K Building Group.* Mechanical Engineer. Provided mechanical engineering support services for HVAC and atrium smoke management systems analyses and design. Using a design/build delivery method, a new 263,000-square-foot, five-story Research and Development Facility was constructed for The Institute for Scientific Research. The facility was outfitted with advanced technology features and amenities that included: distance learning centers; voice/data systems; two-story exhibit hall; heavy research floor with high bay area; prototype workshop and 10-ton crane; fitness center; and full-service kitchen/restaurant. In addition to the environmentally sensitive design features, a number of unique energy-efficient strategies were used to accomplish LEED® certification.

Little Kanawha Bus Facility, Calhoun County, West Virginia. *WV Division of Public Transit.* Mechanical Engineer. Responsibilities included the design of HVAC systems for the facility, which includes variable refrigerant flow, constant-volume air conditioning with energy recovery ventilators, overhead gas-fired radiant heating in the garage, exhaust reels, and CO/NO² detection and alarm systems. 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.

Library HVAC and Direct Digital Control Upgrades, The Pennsylvania State University Beaver Campus, Monaca, Pennsylvania. *The Pennsylvania State University.* Mechanical Engineer. Performed a site inspection to review the condition of the existing HVAC system including mechanical units, ductwork, and control systems. After consultation with the University to determine the scope of the upgrade, provided mechanical engineering design consultation for the construction documents to upgrade the HVAC system. A condition assessment and inspection was performed for the Library’s existing HVAC system, including mechanical units, ductwork, and control systems. After consultation with the University to determine the scope of the upgrade, Baker provided mechanical engineering design and construction documents to upgrade the HVAC system. The work included replacing the rooftop mechanical unit serving the main library, making upgrades to the lower-level HVAC units, and providing a new direct digital control system that provides system information to the University Park Campus through an Internet connection.



David Hilliard, LEED Green Associate

Mechanical Engineering Technician

Mr. Hilliard has a wide range of hands-on design and construction experience. From his simple beginnings as a carpenter, he has expanded his professional abilities. His recent design experience has included the complex mechanical design of such projects as a large Charleston, West Virginia hospital. His resume covers over 20 years of real world work in design, layout, fabrication, construction and finishes in both the mechanical and general trades.

Mr. Hilliard has continued his education and professional development through his involvement with ASHRAE and other pertinent organizations. He recently received his LEED Green Associate accreditation.

Years with Baker: 2

Years with Other Firms: 19

Education

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

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

Licenses/Certifications

LEED Green Associate, 2010

Relevant Experience

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

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

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



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



Tracy Rapp, PE

Electrical Engineer

Mr. Rapp is an electrical engineer with more than 25 years of experience in project management and electrical design of commercial, industrial, institutional, and government facilities. He has a broad range of skills including operations management, project management, engineering management, and electrical engineering. In his current role as the manager of Baker's electrical engineering department, he is responsible for the staffing, technical quality, and the professional development of his staff. Mr. Rapp is experienced in providing coordination and communications with clients, vendors, code-enforcing authorities, contractors, and utilities.

Electrical system design experience includes: electric distribution and control systems, emergency power, ASHRAE energy-efficient building design, lighting systems including site, interior, decorative and streetscape lighting, fire protection and security systems, and communication systems.

Years with Baker: 1

Years with Other Firms: 25

Education

B.S., 1984, Electrical Engineering,
Florida Institute of Technology

Licenses/Certifications

Professional Engineer:

- West Virginia, 2005
- Ohio, 2005
- Pennsylvania, 1990
- Massachusetts, 1992
- Virginia, 1990
- Arizona, 1994
- New York, 1997

Relevant Experience

Mellon Institute Security Renovations, Pittsburgh, Pennsylvania. *Carnegie Mellon University (CMU).* Project Sponsor. Responsibilities included overall project quality and project management. Project included design of the main security station within the historic Mellon Institute research facility, as well as building security upgrades and evaluation of chemical, biological, and radiologic material hazards.

Little Kanawha Bus Facility, Calhoun County, West Virginia. *WV Division of Public Transit.* Electrical Engineer. Responsible engineer for the electrical engineering and design, including power, lighting, and coordination with utility. 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.

Office Addition to Duquesne Light Company's Woods Run #3, Pittsburgh, Pennsylvania. *Duquesne Light Company.* Electrical Engineering Department Manager. Provided general oversight and guidance to the electrical design team for the building addition.

Corporate Office Center, Warrendale, Pennsylvania. *Medrad, Inc.* Project Manager. Responsibilities included management of the project team and design services for a 125,000-square-foot corporate office center. The facility, designed using sustainable principles and attaining Gold LEED®, is set within a hilly, forested site. The design employs under-floor air distribution, maximizes daylight and views, and is planned for flexibility and future expansion.



Kevin Louk, RCDD/NTS/OPS, LEED AP BD+C

Communications Designer

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 education, telecommunications, military, 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.

Relevant Experience

Renovations to Patrick Henry Elementary School, Alexandria, Virginia. *Alexandria City Public Schools.* Electrical Designer. Led the electrical design for renovations to an elementary school including recording all electrical, telecommunication, and fire alarm existing conditions during site visits.

Renovations to Charles Barrett Elementary School, Alexandria, Virginia. *Alexandria City Public Schools.* Electrical Designer. Led the electrical design for renovations to an elementary school including recording all electrical, telecommunication, and fire alarm existing conditions during site visits.

Renovations to George Mason Elementary School, Alexandria, Virginia. *Alexandria City Public Schools.* Electrical Designer. Led the electrical design for renovations to an elementary school including recording all electrical, telecommunication, and fire alarm existing conditions during site visits.

Renovations and Addition to Lovettsville Elementary School, Lovettsville, Virginia. *Loudon County Public Schools.* Electrical Designer. Led the electrical design for renovations to an elementary school including recording all electrical, telecommunication, and fire alarm existing conditions during site visits.

Renovations to Parkview High School, Sterling, Virginia. *Loudon County Public Schools.* Electrical Designer. Led the electrical design for renovations to an elementary school including recording all electrical, telecommunication, and fire alarm existing conditions during site visits.

Arkansas Department of Education, Arkansas. Electrical Designer. Performed evaluations of existing electrical, telecommunications, and fire alarm systems and provided reports of evaluated systems to the Arkansas Department of Education for over 30 schools throughout the state of Arkansas.

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

LEED Accredited Professional, 2008

LEED Accredited Professional BD+C, 2010

Registered Communications Distribution Designer, 2008

RCDD/Network Transport Systems Specialist (NTS), 2008

RCDD/Outside Plant Specialist (OSP), 2008

Master Electrician, West Virginia, 2000

Master Electrician, Virginia, 1999

ICC and IAEL Electrical Plans Examiner, 2003

ICC and IAEL Commercial Electrical Inspector, 2003

ICC and IAEL Electrical Inspector, 2003



Steven Henry, CPD

Plumbing Designer

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 educational, institutional, government, military, vehicle maintenance, aviation, commercial, light industrial, data/communication, high-rise apartments and hotels, and health care facilities.

Relevant Experience

Child Development Center, Oceana Naval Air Station, Virginia Beach, Virginia. *Naval Facilities Engineering Command, Atlantic Division.*

Designer. Responsibilities included assisting in the plumbing and fire protection design. Performed calculations and product and fixture selection. Baker provided a design for a new 29,000-square-foot Child Development Center at Naval Air Station, Oceana. The facility, can accommodate 280 children, and features a commercial kitchen and laundry, a two-story reception lobby and other administrative spaces, along with outdoor play areas.

Fort Knox High School Design, Fort Knox, 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 including 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.

NRF Utility Expansion, Confidential Location. *Confidential Client.* Designer. Provided the design and wrote the specifications for sewage and stormwater pump lift stations. Baker designed expansions to campus utilities to the northeast quadrant of the site for future planned development, including the following: sanitary sewer extension; stormwater drainage; 2,500 volt 4x4 power distribution ductbanks; 2x4 communication ductbank; domestic water system; and firewater distribution piping. The utilities expansion also included: Idaho Department of Environmental Quality permits; duplex VFD sanitary and triplex VFD stormwater lift stations; tie-in to and relocation of existing sanitary force main; manholes; fire hydrants; and multiple utility crossings and encasements.

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.

Water Supply Study, Saxonburg, Pennsylvania. *II-VI Incorporated.* Designer. Performed a field survey and prepared a report relative to the existing water and fire demand, as well as the expected water and fire demand for an anticipated plant expansion. II-VI Incorporated required additional reliability for meeting their plant's domestic and fire suppression water supply needs. Baker performed a study on the water supply system, developing recommendations and cost estimates. The study focused on II-VI's use of the Saxonburg Area Authority's (SAA) existing 10-inch water main that crosses the plant site, in conjunction with supplementing plant site water system capabilities by the addition of a water storage tank and fire pumping equipment.

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



David Cameron, AVS

Constructibility, Cost Estimating, and Value Engineering

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, and 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 and 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.

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

Relevant Experience

Community Child Development Center, Confidential Location. Confidential Client. Technical Advisor. Responsibilities included periodic site visits, review and recommendations related to progress, contract deficiencies, recovery, quality of work, and change order mitigations. Also provided technical and administrative oversight for construction inspection services. Consolidating two inadequate facilities, Baker designed and provided construction phase services for a new, one-story child care center accommodating 244 children. To ensure age appropriate facilities for children of all ages, the building is zoned, with specialty suites for infant, toddler, pre-kindergarten, kindergarten, grades one through six, and grades seven through twelve. A new outdoor play area also provides recreation for children of varying ages. Design and construction of the project included provision of utilities to the site, relocation of an existing road, and demolition of an existing structure.

Barnard Elementary School, DC Public Schools, Washington, DC. U.S. Army Corps of Engineers, Baltimore District. Technical Advisor. Responsibilities included performing and/or assisting in the performance of design and constructibility reviews as well as providing certain cost estimate verifications. Design of the new 78,000-square foot-school was visually divided into a series of bays, accented with pitched roofs. The new facility provides classrooms, a library, a gymnasium, and administrative offices for 530 students.

Barnard Elementary School Construction Services, Washington, DC. U.S. Army Corps of Engineers, Baltimore District. Construction Manager. During preconstruction, responsibilities included assisting in the performance of design and constructibility reviews, as well as providing cost and estimate verifications. Responsibilities during the construction phase included insuring that project events/activities were being adequately coordinated and accurately documented. This also included general oversight of the general contractor's quality control and scheduling efforts; assisting the A/E team in responding to requests for information; and providing recommendations to the client related to any requests for change order, time and/or dollars. Baker provided intensive on-site construction support services. The new facility provides classrooms, a library, a gymnasium, and administrative offices for 530 students.



Life Sciences Building, 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. Functioning as an extension of West Virginia University's staff, and as a part of their master plan implementation, Baker provided construction program management services to the University for its buildings program. Our responsibilities include providing full-time on-site owner representation to monitor the work of the design, contractor, and construction management teams. The University's new 190,000-square-foot Life Sciences Building was one of five projects constructed at the Morgantown, WV campus under our program management.

Student Recreation Center, 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 provided program management services to West Virginia University (WVU) through an open-end architectural and engineering services agreement to oversee the construction program for the university's campus master plan. Baker's responsibilities as a full-time on-site representative of WVU included monitoring the work of the designers, contractors, and construction management teams for the university's new 170,000-square-foot Student Recreation Center. The facility includes seven basketball courts, three racquetball courts, a squash court, a 17,000-square-foot weight/fitness area, three multipurpose sports rooms, a three-story-tall indoor rock-climbing wall, large-lap swimming pool, leisure pool, spa, elevated indoor jogging track, and food court, as well as administrative offices.

Community College of Beaver County Campus Additions and Alterations, Monaca, Pennsylvania. *Community College of Beaver County.* Project Director. Responsibilities included monitoring design and oversight of the construction management and inspection services. Tasks included constructibility and quality reviews during design, bid and contracting on the client's behalf, as well as full construction phase administration, from schedule and coordination to quality and closeout. Baker is currently performing pre-construction tasks and construction management services for a new maintenance building and renovations to seven facilities at the campus.

Historic Restoration of John Sutton Hall, Indiana University of Pennsylvania, Indiana, Pennsylvania. *Indiana University of Pennsylvania.* Technical Advisor. Responsibilities included assisting the architect in review of the existing construction, with consideration to historic renovation, cost/budget, and coordination and constructibility within an occupied facility. Baker designed the Phase I historic restoration of the first building on the campus of Indiana University of Pennsylvania (IUP), the prestigious "Old Main" constructed in 1875, listed as a landmark on the National Register of Historical Places. The 135,000-square-foot building contains offices for human resources, university housing, and admissions. Major project components included replacement of the heating and ventilation system, addition of an air conditioning system; interior space planning and relocation of departments; a new service entrance and freight elevator; replacement of all windows with energy-efficient units capable of meeting historic guideline standards; toilet room, including upgrades consistent with the Americans with Disabilities Act; and exterior work, including new storm drains, sanitary lines, fire lines, water lines, foundation drains, site lighting, walkways, handicapped-accessible entrances, and other exterior treatments.



4.2.3. Project Organization

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

Key Management Personnel

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

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

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

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

Project Manager – Ron Bolen, RA, AIA (Charleston, West Virginia): Mr. Bolen brings over 38 years of design and project management experience to the project. He recently managed a Child Care Center project for the Shining Light Celebration Church in Charleston, West Virginia. He is currently serving as architect for the West Virginia General Services Division's project for Campus Master Planning and Architectural and Engineering Services for the State Capitol Complex, and for the rehabilitation design of dozens of restrooms in the historic State Capitol building. Over the past decade, he assisted seven West Virginia counties in the development of comprehensive education facilities plans. This effort involved assessing the education facilities in each county, developing maintenance and repair plans and cost estimates, as well as ten-year facility plans. Mr. Bolen will act as Project Manager for the West Virginia Capitol Day Care Center project.

Principal-In-Charge – Russell E. Hall, PE, PS (Charleston, West Virginia): Mr. Hall, Assistant Vice President, is Office Manager of Baker's Charleston, WV office. He is an experienced 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. His strengths include organizing and managing project teams, quality control and quality assurance, and problem resolution. Mr. Hall provides overall direction and maintains direct communications with all clients. His responsibility is to ensure that Mr. Bolen has all of the resources that he needs for the successful execution of your project, and that all quality programs are followed.



QA/QC Manager – Ralph Deffenbaugh, PE, LEED® AP (Moon Township, Pennsylvania): Mr. Deffenbaugh is Director of Facilities Engineering for Baker, providing leadership for project quality and interdisciplinary coordination for the engineering group. Mr. Deffenbaugh will serve as QA/QC Manager and be responsible to administer Baker's quality processes. As Director of Baker's Facilities Engineering services, Mr. Deffenbaugh is responsible for all design projects under his management, ensuring quality and client satisfaction. His project experience includes every Child Development Center project included in this submittal.

Site Design/Civil Engineer and Surveyor – Patrick Fogarty, PE, PS (Charleston, West Virginia): Mr. Fogarty has over 24 years of civil engineering project design and management experience. He is responsible for the technical and management aspects of civil design and surveying projects within Baker's Charleston, West Virginia office. Mr. Fogarty has designed and managed projects in numerous disciplines including civil, structural, and transportation engineering; site development planning; and surveying. He will serve as Site Design/Civil Engineer and Surveyor for the project.

Geotechnical Engineer – John Dziubek, PE (Moon Township, Pennsylvania): 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 is familiar with the soil conditions in the state of West Virginia and experienced with various building foundations that are required for structures built over abandoned mines.

Landscape Architect – Laura Cox, RLA, ASLA (Charleston, West Virginia): Ms. Cox is a Registered Landscape Architect with over 30 years of experience in landscape architecture and land planning. She has knowledge of all phases of design from site analysis and conceptual planning through construction documentation, permitting and, administration. Her design experience includes large-scale site preparation and grading, drainage analysis, stormwater conveyance and detention, and utility and infrastructure design. Ms. Cox is experienced with elementary, middle, and high school project designs, which involved the design of playground spaces, practice fields, athletic fields, and outdoor spaces.

Architect – Ronald Kretz, RA, AIA, LEED® Green Associate (Moon Township, Pennsylvania): Mr. Kretz is a registered architect with over 20 years of experience as principal, project manager, and designer. He is the A/E Operations Manager of Baker's North Region Facilities Group with direct management responsibility over all architectural and building engineering personnel, project designs, quality practices, and office functions. His project experience includes designs for day care and child development centers, as well as elementary, middle school, and higher education project designs. 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. He will serve as co-QA/QC Manager and be responsible to administer Baker's quality processes.

Interior Design – Alana Pulay, IIDA, LEED® AP (Charleston, West Virginia): Ms. Pulay is a professional interior designer with comprehensive knowledge of architecture and the design industry with over seven years of experience in educational, 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. She has experience in elementary school designs and understands the sensitive nature of using color and texture to promote creative thinking and durability of surfaces and finishes.

Sustainable Design – Eamon Geary, LEED® AP (Moon Township, Pennsylvania): Baker recently added Eamon Geary, LEED AP to our team of Baker professionals for the singular purpose of having a full-time



sustainability expert dedicated to coordinating the LEED® design process on Baker's projects. Mr. Geary spent the last seven years working in the tri-state region, nationally, and internationally to encourage and support green development and curb greenhouse gas emissions. Mr. Geary held the position of Project Specialist for the Green Building Alliance (GBA) and served as Program Officer for ICLEI - Local Governments for Sustainability. At Baker, he is responsible for overseeing and auditing many aspects of our project's sustainable design and construction practices. In conjunction with the USGBC, he provides third-party verification that a building or community was designed and built using strategies aimed at improving performance across all of the metrics that matter most: energy savings, water efficiency, CO2 emissions reduction, improved indoor environmental quality, and stewardship of resources and sensitivity to their impacts. Focused on sustainable design, Mr. Geary's expertise is included on our team to provide all stakeholders with an outlet for any technical questions and advice.

Structural Engineer – Erik Spicker, PE (Moon Township, Pennsylvania): Mr. Spicker is a structural engineer with over 15 years of experience in the design of educational, commercial, military, governmental, industrial, transit, and residential design and construction. His project experiences include structural engineering designs for child development centers, elementary schools, and other similar project types. He is experienced in fast-tracked projects where substructure and foundation packages are released early and separately to contractors to allow early construction start. These projects include office buildings, schools, storage and warehouse facilities, and numerous residential structures.

Mechanical Engineer – Craig W. West, PE, LEED AP (Moon Township, Pennsylvania): Mr. West is Baker's Mechanical Engineering Manager with a background that includes project management and providing design and specifications for HVAC, plumbing, fire protection, piping, and process exhaust systems for educational, military, commercial, institutional, healthcare, and industrial facilities. He is responsible for all facets of the job, including client contact, project organization and management, load calculations, equipment/system selection, layout, developing department technical standards, supervision, fan static and pump head calculations, specifications, and sequences of operation. Mr. West's project experiences include design of mechanical systems for child development centers and elementary schools, as well as other training facilities.

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

Electrical Engineer – Tracy Rapp, PE (Moon Township, Pennsylvania): Mr. Rapp is an electrical engineer with more than 25 years of experience in project management and electrical design of commercial, industrial, institutional, and government facilities. He has a broad range of skills including operations management, project management, engineering management, and electrical engineering. In his current role as the manager of Baker's electrical engineering department, he is responsible for the staffing, technical quality, and the professional development of his staff. Electrical system design experience includes: electric distribution and control systems, emergency power, ASHRAE energy-efficient building design, lighting systems including site, interior, decorative and streetscape lighting, fire protection and security systems, and communication systems.

Communications Design – Kevin Louk, RCDD/NTS/OPS, LEED AP BD+C (Moon Township, Pennsylvania): Mr. Louk has a diversified electrical background with over 15 years of experience, including communication and electrical systems design, construction, and maintenance. He is a Registered Communications Distribution Designer and LEED accredited professional with experience in the design of communication systems for elementary schools and other training facilities.



Plumbing Design – Steven Henry, CPD (Moon Township, Pennsylvania): 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 educational, institutional, government, military, vehicle maintenance, aviation, commercial, light industrial, data/communication, high-rise apartments and hotels, and health care facilities. Mr. Henry has designed plumbing and fire suppression systems for child development centers, high schools, and other training facilities.

Constructibility, Cost Estimating, and Value Engineering – David Cameron, AVS (Moon Township, Pennsylvania): 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, and 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.

Office Locations

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

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

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

Other Charleston, West Virginia personnel include the site/civil engineer, landscape architect, interior designer, and mechanical systems designer. All other key personnel and disciplines are located at Baker's Moon Township (Pittsburgh), Pennsylvania office.

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



The key features of this system are:

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

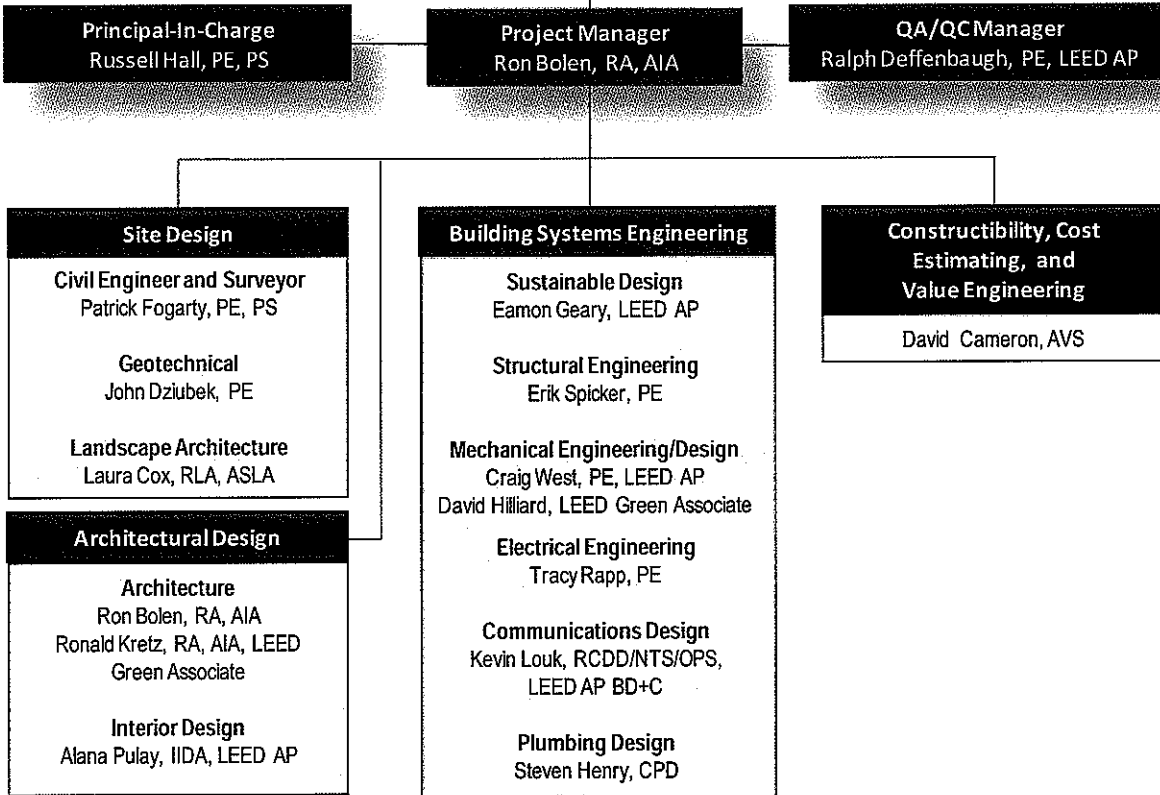
All team members are familiar with this process, which allows for organized and quick access and retrieval of information.



Organization Chart

Baker

**West Virginia State Capitol Complex
Capitol Day Care
RFQ # GSD 116404**



Baker employs approximately 800 additional professionals and technical personnel, in all disciplines, that are available as may be needed.



4.2.3. Project Organization – Project Schedule

- b. Provide a statement or evidence of the firm or team's ability to provide services within the project time frame and a proposed project schedule outlining the key phases.*

The proposed members of the Baker Team, as described in this submittal, are available for the execution of your new Capitol Day Care Center project for the timeline described on the following detailed project schedule. Baker's local/regional professionals and technical personnel number in excess of 800, in all disciplines. Should additional personnel be required, in any discipline, the Baker Team has the capacity to fulfill those requirements.

The attached Project Schedule timeline is detailed, by week, under major work categories including surveying of existing conditions, schematic design, design development, contract documents preparation, and construction administration services. Time allotments for permitting and approval processes, and coordination with the appropriate officials, is included in our proposed schedule. Since specific schedule details such as contract award, and start and completion dates, were not included in your RFQ, Baker's proposed schedule is presented with the understanding that the State of West Virginia may need to adjust our timeline.



WV CAPITOL DAY CARE CENTER PROPOSED TIMELINE BY TASK

Team Schedule by Project Task

	Week 62	Week 63	Week 64	Week 65	Week 66	Week 67	Week 68	Week 69	Week 70	Week 71	Week 72	Week 73	Week 74	Week 75	Week 76	Week 77	Week 78	Week 79	Week 80	Week 81	Week 82	Week 83	Week 84	Week 85	Week 86	Week 87	Week 88
Project Setup																											
Contracting																											
Organization of the Design Review Committee																											
1 Task 1: Survey Existing Conditions																											
1.1 Committee Meeting 1 (kickoff)																											
1.2 Data gathering (site conditions, utilities)																											
1.3 Soil Borings																											
1.4 Base mapping																											
1.5 Soil Borings Report & Recommendations																											
1.6 Data analysis																											
1.7 Documentation of Work; Annotate Plans, Prepare Report																											
1.8 Committee Meeting 2 (present Existing Conditions Report)																											
1.9 GSD Approval of Existing Conditions Report																											
2 Task 2: Schematic Design																											
2.1 Committee Meeting 3 (kickoff Task 2; establish program)																											
2.2 Criteria Development																											
2.3 Preliminary Scheme																											
2.4 Preliminary Cost Opinion																											
2.5 Planning Committee Meeting 4 (present Schematic Design)																											
2.6 GSD Approval of Schematic Design Report																											
3 Task 3: Design Development																											
3.1 Refine Scheme Based on Feedback in 2.6																											
3.2 Formalize Schemes for Key Areas																											
3.3 Committee Meeting 5 (present formalized key schemes)																											
3.4 Finalize DD documentation																											
3.5 Design Development Cost Opinion																											
3.6 Committee Meeting 6 (present Design Development)																											
3.7 GSD Approval of Design Development Documents																											
4 Task 4: Contract Documents																											
4.1 Prepare the Plans and Specifications																											
4.2 Final Cost Opinion																											
4.3 Committee Meeting 7 (Final Design Review)																											
4.4 GSD Approval of Construction Documents																											
5 Phase III / Task 5: Construction Administration																											
5.1 Bidding																											
5.2 Assisting with Contractor Selection and Contract																											
5.3 Construction Administration																											
5.4 Substantial Completion																											
5.5 Completion of Day Care Center - GSD Approval																											



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

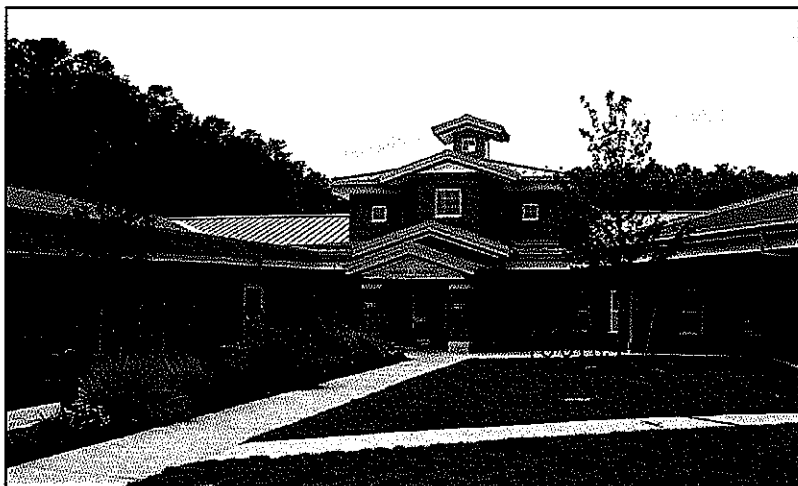
- a. *Provide descriptions of relevant projects demonstrating the firm's ability to execute projects similar to those described in this Expression of Interest. Provide descriptions of not more than ten projects performed in the last ten years. Projects of interest should include work performed within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

As requested, the Baker Team has provided ten project examples of work performed during the last ten years that demonstrate our ability to execute projects similar to the proposed West Virginia State Capitol Daycare Center, as well as projects that demonstrate experience working within the State of West Virginia.



Child Development Center

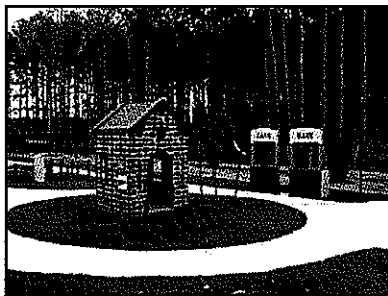
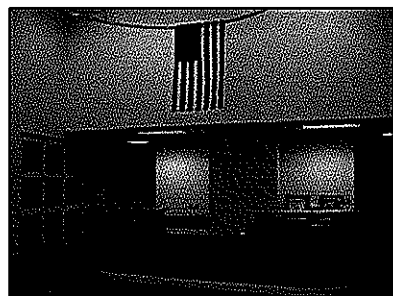
Oceana Naval Air Station; Virginia Beach, Virginia



The new Child Development Center at Naval Air Station Oceana is a one-story facility, of approximately 29,000 square feet. This facility, which accommodates 280 children, is comprised of five infant activity rooms, four pre-toddler activity rooms, four toddler activity rooms, six preschool rooms, a commercial kitchen and laundry, a two-story reception lobby and other administrative spaces. Four outdoor play areas, divided by age group, are provided. In keeping with the Navy's commitment to environmentally-responsible design, the facility incorporates many sustainable design features and achieved a Silver LEED® certification from the U.S. Green Building Council.

Baker began this project by conducting a design charrette that involved the Center's Director and Child Development Specialists; the architectural/engineering team; the builder; and other stakeholders. The designers led all participants in a collaborative effort, resulting in a pragmatic, affordable, and inspiring solution.

Baker provided design, architecture, landscape architecture, mechanical, electrical, structural, and civil engineering.



Client

Naval Facilities Engineering
Command, Atlantic Division
6506 Hampton Boulevard
Norfolk, VA 23508-1278

Stephen D. Emrick, P.E.
Supervisory General Engineer
757-433-2619

Completion Date

2008

Project Costs

\$10,600,000 (Construction)
\$516,744 (Fee)

Baker's Role

- Architecture
- Mechanical Engineering
- Electrical Engineering
- Structural Engineering
- Civil Engineering
- Landscape Architecture
- Design Component of Design/Build



Child Development Center, Naval Base San Diego

San Diego, California



As designer-of-record for this design-build project, Baker provided design services for a 31,000-square-foot Child Development Center for the Navy at Naval Base San Diego, California. The single-story structure accommodates 306 children and approximately 60 staff members. Functional areas of the facility include entrance/lobby, reception/work area, administration, seven infant activity rooms, seven pre-toddler activity rooms, six toddler activity rooms, four preschool rooms, public restroom, janitor's closet, storage, employee restrooms, training office, break room, kitchen, laundry room, mechanical room, electrical room, NMCI room, and communication closet. Site improvements include play areas, parking (including drop off area), site lighting, landscaping, and stormwater management.

Baker prepared construction documents for the site civil design for Phase I, which is fast-tracked. Under Phase II, Baker prepared architectural, mechanical, electrical, plumbing, interior design, and landscape architecture design and construction documents.



Client

Soltek Pacific Construction Company
2424 Congress Street
San Diego, CA 92110-2888

James Altman,
Project Manager
619-296-6247

Completion Date

2010

Project Costs

\$12,000,000 (Construction)
\$964,290 (Fee)

Baker's Role:

- Site Civil Design
- Architectural Design
- Mechanical Engineering
- Electrical Engineering
- Plumbing Design
- Fire Protection Engineering
- Interior Design
- Food Service Design
- Fixed Furniture & Equipment
- Landscape Architecture
- Playground Design





Child Development Center

Hill Air Force Base, Utah

In 2009, the Air Force produced a new prototype design to be used throughout the county. Hill Air Force Base's CDC was one of the first awards based on this prototype. It consists of four wings connected by a central core and entry area. Options added include in-floor radiant heat, clear-stories, additional classrooms, and exterior and interior storage. Baker teamed with HHI Corporation as designer-of-record for this design/build project.

Baker provided design management, engineering, and architectural services for the design/build project to construct an additional Child Development Center (CDC) at Hill Air Force Base. The 35,579-square-foot CDC is needed to accommodate the increasing demand for child care services at the base, which greatly exceeds the capacity of the existing facility.

The new CDC is a one-story structure consisting of four wings connected by a central core with an entryway. The building was designed to initially accommodate 266 children; future build-out may increase the capacity to 304 children. Functional areas include an entrance and lobby; reception and administrative areas; activity rooms for infants, pre-toddlers, toddlers, and preschoolers; a training office; break room; kitchen; laundry room; mechanical, electrical, and NMCI rooms, a communications closet, and a janitor's closet; employee and public restrooms; and a storage room. The project also involved the design of support facilities, including parking lots and playgrounds.

The CDC was designed to meet the requirements for U.S. Green Building Council Leadership in Energy and Environmental Design (LEED®) Silver certification.

Client

U.S. Army Corps of Engineers,
Sacramento District
1325 J Street
Sacramento, CA 95814-2922

Steve Gladwell
801-777-2206

Completion Date

December 2011 (Est. Construction)
March 2010 (Design Completed)

Project Costs

\$10,274,669 (Estimated)
\$680,000 (Fee)

Baker's Role

- Design Management
- Sustainable Design
- Site and Civil Engineering
- Structural Engineering
- Mechanical Engineering
- Electrical Engineering
- Fire Protection Engineering
- Preliminary Architectural Design





The goal of the facility is to provide the youngest members of the Hill AFB community with quality child care. The center offers active and passive activity areas that accommodate a range of play and organized learning areas. It will serve the needs of adult staff and parents, and facilitate staff-child relationship building. The facility includes comfortable, safe, nurturing, and stimulating environments essential for healthy development of the children.

Baker is serving as the lead design firm and LEED® professional. Services involve managing the design tasks for all disciplines and the preparation of LEED® construction documentation; developing site, civil, structural, HVAC, electrical, and fire protection designs; preparing preliminary (30 percent) architectural design documents, and reviewing the tasks of an architectural subconsultant; and performing a quality control review of architectural and landscape architecture construction documents.



To promote the development of sustainable design solutions that meet the needs of all stakeholders, Baker conducted a design charrette. Participants included the client and other stakeholders, the architectural and engineering design team, and the builder.

Site Design and Supporting Facilities: Baker prepared the building civil site design, which involved developing plans for grading, storm drainage installation, utility location, asphalt and pedestrian walkway paving and concrete curbing installation, exterior lighting, landscaping, and temporary and final stabilization control for building construction. The CDC site was designed to minimize impacts on surrounding areas and incorporates provisions for anti-terrorism and force protection. The site design conforms to UFC 4-740-14 Design: Child Development Centers criteria, and also meets Americans with Disabilities Act requirements.

Playground areas are divided into activity areas including general purpose, sensory, garden/nature, water, sand, building blocks, equipment, drama/imagination, music, and art. Each of these activities areas are further developed to reflect specific physical, emotional, social, and intellectual learning concepts. The playground will be enclosed by an external-perimeter six-foot fence of vinyl coated chain link materials. The major playground areas will be subdivided with barriers. Convex mirrors will be provided in any blind spots in the playground area, enhancing vision for CDC staff. The playground areas also include electrical outlets and lighting, intercom, first aid cabinet, wall hydrant hose connection, access to trash receptacles, drinking fountain, mass notification system, speakers, plantings and vegetation, and shade (by both natural and artificial means).

Mechanical, Electrical, and Plumbing Systems Engineering: Baker designed an electrical HVAC system for the facility specifying the use of fan coils with energy recovery units on ventilation equipment. Electric resistance coils are used for heating, and chilled water coils for cooling. The system includes an air-cooled chiller with a variable pumping system to save energy. Baker's design specified a dedicated fan coil for each classroom and for the kitchen, to enhance comfort; fan coils are shared within common areas. Ventilation systems and unit heaters are provided for utility rooms, and radiant heat is integrated in several rooms for small children. To increase safety during winter weather, Baker specified the installation of an electric snow-melting system at the building entrance. Baker selected a BACnet control system to control and monitor building systems. The plumbing system design provides electric storage water heating and includes a booster water heater for the kitchen.

Sustainable Design Features: The living and working environment at the CDC will be enhanced through sustainable design by improving air and water quality, reducing solid waste, and conserving natural resources. Baker incorporated numerous LEED® sustainable features into the building design. The design features an energy-efficient building envelope and equipment occupancy sensor controls to optimize the usability of spaces and extend the life of the building HVAC system. It also includes energy-efficient lighting and daylighting to reduce operating costs and extend the service life of the mechanical and electrical equipment. In addition, Baker has specified that the construction adhesives, paints, and other coatings, and carpeting used in the structure must conform to LEED® requirements.



Child Development Center and Central Issue Facility

Fort Drum, New York

Baker provided design charrettes, programming data, and architectural and engineering services to assist the Army in preparation of DD Form 1391 programming documents for a Child Development Center and a Central Issue Facility.

A Child Development Center for pre-school children under six years of age is planned for construction to provide the required care for 100 children. The project included all required supporting facilities, anti-terrorism measures, and information technology support.

A general-purpose, installation-level Central Issue Facility of approximately 100,000 square feet was also planned for construction, to serve as garrison support of base operations. The facility may also be used for the storage of medical supplies not associated with a hospital. The structure will include loading docks with cantilever support canopies and material handling equipment.

Two design charrettes were held over a five-day meeting for the planned facilities. The charrettes involved studies, investigation of supporting utilities and facilities such as water supply, sewer, natural gas, HVAC, electric service, exterior and security lighting, parking for over 200 vehicles, storm drainage, communications, fire protection, access roads, fencing, signage, landscaping, paving, walks, curbs, anti-terrorism and force protection measures, information systems, environmental impacts, and general site improvements.

A charrette report, basic drawings, and a PACES parametric cost estimate were provided for each of the planned projects. Pre-design level description narratives were prepared for mechanical, plumbing, electrical, structural, fire protection, life safety, architectural finishes, and information systems. Deliverables included a detailed planning charrette with users to revise an outdated Central Issue Facility floor plan. Requirements such as special foundations, security, and force protection designs were also identified. Exterior elevations and cross-sections were provided to facilitate visualizing the project.

Client

U.S. Army Corps of Engineers, New York District
Jacob K. Javits Federal Building 26
Federal Plaza
New York, NY 10278-0900

Anthony B. Felder
Project Manager
315-586-3022

Completion Date

2008

Project Costs

\$66,915 (Fee)

Baker's Role

- Design Charrette
- Civil Engineering
- Geotechnical Engineering
- Utilities Engineering
- Landscape Architecture
- Sustainable Design
- Programming
- Architecture
- Structural Engineering
- Mechanical Engineering
- Electrical Engineering
- Fire Protection Engineering
- Plumbing Design
- Anti-terrorism and Force Protection
- Pavement Design



Child Development Center Complex Design/Build RFP Documents

Fort Drum, New York

Baker provided architectural and engineering services to assist the U.S. Army Corps of Engineers with the preparation of Design/Build RFP Documents for a second Child Development Center Complex to be constructed at Fort Drum, New York.

The 24,050-square-foot complex for 232 children, ages six weeks to five years to include infants, pre-toddlers, toddlers, and pre-school age children, includes age-specific outdoor play areas, activity rooms for each age group, restrooms, a reception/ entrance area, administrative area, staff lounge and work room, storage, kitchen, janitor closet, and laundry room. The sustainability rating for the complex is Silver LEED®.

Supporting facilities include communication systems with closed circuit television, utilities, electric service, fire protection, sprinkler and alarm systems, paved walks, curbs and gutters, storm drainage, outdoor play areas with age-appropriate child development equipment to include safety surfacing and fencing, information systems, and site improvements.

A conceptual site layout was provided that indicates adjustments for placement of roads, parking, utilities, and anti-terrorism and force protection requirements, and stormwater management. Due to severe climatic conditions, including sliding snow and ice, a cold roof design was provided. Site utility planning included points of connection and routing of water, sanitary, storm and SPDES, gas, electric, and communications. The programmed cost of the facility and site improvements was \$9,348,106.

Client

U.S. Army Corps of Engineers,
New York District
Jacob K. Javits Federal Building 26
Federal Plaza
New York, NY 10278-0900

Anthony B. Felder
Project Manager
315-586-3022

Completion Date

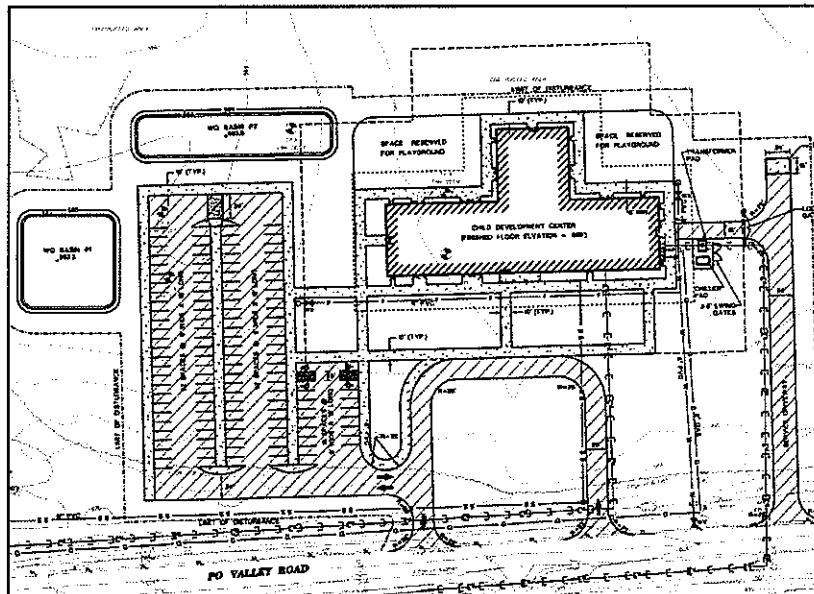
2008

Project Costs

\$9,348,106 (Est. Construction)
\$99,382 (Fee)

Baker's Role

- Civil Engineering
- Geotechnical Engineering
- Sustainable Design
- Architecture
- Architectural Renderings
- Structural Engineering
- Mechanical Engineering
- Anti-terrorism and Force Protection
- Design/Build RFP Documents





Campus Master Planning and Architectural and Engineering Services for State Capitol Complex

Charleston, West Virginia

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

In addition to providing comprehensive master planning and design services, plans and construction specifications, and construction administration for improvements to the historic West Virginia state capitol campus are also being provided.

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

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

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

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

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

Client

State of WV
General Services Division
Department of Administration
Building 1, Room MB-601900
Kanawha Boulevard East
Charleston, WV 25305

Robert P. Krause, P.E., A.I.A.
Architect/Engineer
304-558-9018

Completion Date

2010 – 95% Complete

Project Costs

\$887,880 (Fee)

Baker's Role

- Master Planning
- Historic Preservation
- Architecture
- Civil Engineering
- Mechanical Engineering
- Electrical Engineering
- Energy Conservation and LEED®
- Construction Administration



WVARNG Charleston Armory HVAC and Architectural Renovations

Charleston, West Virginia



Constructed in 1961, the existing facility started as the Coonskin Armory. The Headquarters Building was constructed simultaneously with the Coonskin Armory and occupied the second floor. As

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

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

Client

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

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

Completion Date

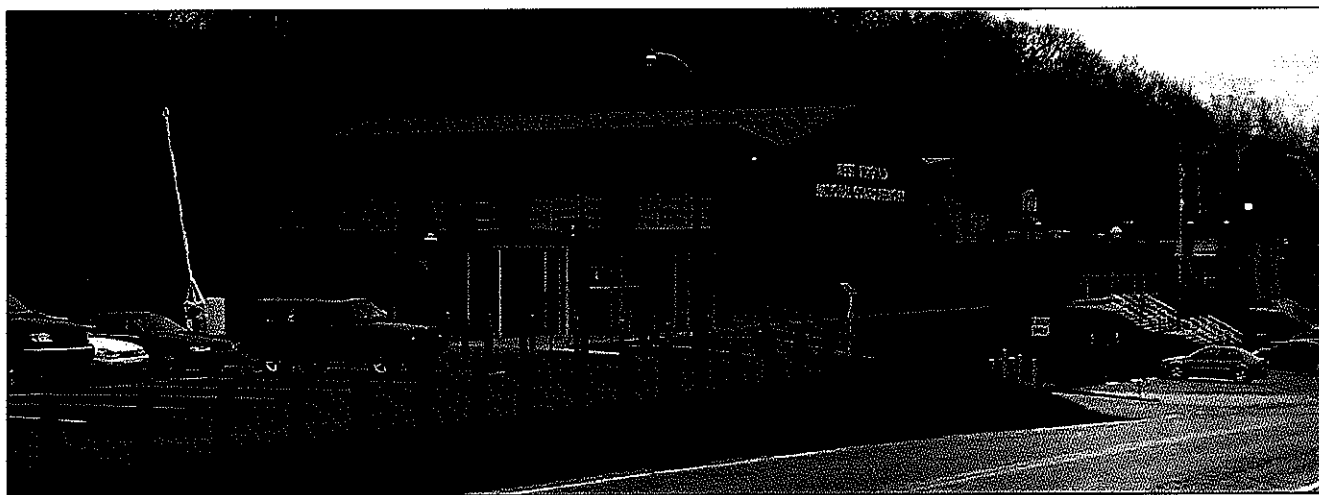
2010 – 89% Complete

Project Costs

\$2,990,000 (Est. Construction)
\$72,100 (Fee)

Baker's Role

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

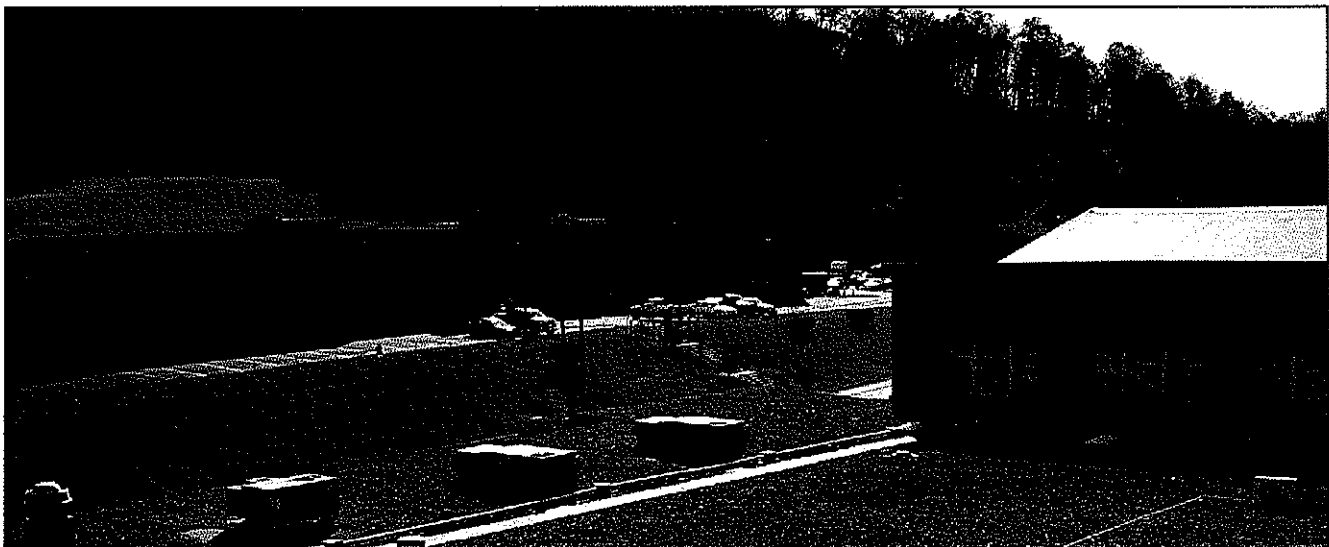




Baker offered six potential solutions for the facility's HVAC issues in the Planning Study Report. During the review of the six solutions, Baker needed to determine the Owner's requirements and expectations as well as the level of disruption to the facilities that would be tolerated. These factors were 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.

The HVAC system, as designed, operates a number of functions in the facility, including: the **Child Development Center** for elementary-aged children (Star Base); the drill hall with several military and athletic functions; large strategy conference room; and various offices and support areas. Individual HVAC system controls provided in all areas are very important to all of the functional operations, and to a healthy environment for everyone using the facility, from the small children in the Child Development Center to the strategy conference room.





Open-End Architectural/Engineering Services at West Virginia University

Morgantown, West Virginia

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, which involved multiple training facilities including classrooms, labs, physical fitness center, and library, as well as student housing upgrade projects. Baker's specific 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 the projects noted below.

- New Life Sciences Building
- Wise Library Renovation and Expansion
- New Student Recreation Center
- Creative Arts Center Facility Condition Assessment
- Creative Arts Center Renovation
- Allen Hall HVAC Upgrade and Asbestos Abatement
- Clark Hall and Boreman Hall South Roof Assessments
- Boreman Hall South Roof Repairs

The duties of Baker's on-site program managers included the following:

- Maintain the project program
- Manage and administer the contract requirements of the A/E and construction manager
- Review the bid packaging strategies with the owner
- Assist in the review and recommendation of apparent responsible low bidders
- Coordinate owner-directed change orders, and review and recommend acceptance or rejection of, and/or modifications to, contractor requests
- Monitor and maintain project budgets on behalf of the University
- Review Requests for Information and responses
- Monitor contractor progress related to the project schedule and contract requirements and provide daily updates to the owner
- Provide quality review of ongoing work activities
- Perform daily inspection of the site to mitigate future quality and/or schedule impact issues
- Prepare bid proposal documents for FF&E and reviewing FF&E items to account for field requirements
- Review of project site and notify the construction manager of safety concerns and/or potential violations
- Attend project progress and coordination meetings, as well as University facility and administration meetings related to the various projects
- Offer constructive suggestions to the construction manager for areas requiring attention, along with methods to expedite the work
- Review and assist with schedule updates
- Review and recommend payment for construction manager and contractor invoices

Client

West Virginia University
P.O. Box 6570
Morgantown, WV 26506
Mr. John Thompson
Manager, Design & Construction
304-293-3625

Completion Date

2006

Project Costs

\$137,269,280 (Construction)
\$1,859,125 (Fee)

Baker's Role

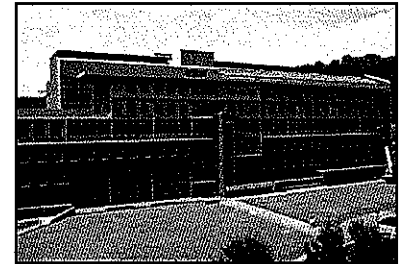
- Program Management
- Construction Management
- Architecture
- Multi-Discipline Engineering
- Cost Estimating
- Scheduling
- Inspection QA/QC



- Assist in move coordination functions with the various College Deans, their designated representatives, physical plant personnel, and the construction manager
- Schedule, coordinate, and participate in the Labor and Industry and local Fire Marshall inspections, as well as follow-up with the appropriate parties for any action required as a result of the inspections
- Schedule and coordinate the participation of the appropriate university maintenance staff in the contractor/vendor training sessions for new facilities
- Participate in preparation of punchlists and monitor satisfactory completion

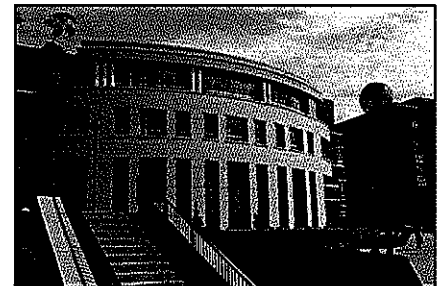
New Life Sciences Building

The new 190,000-square-foot Life Sciences Building was one of five projects constructed at WVU's Morgantown, West Virginia, campus under Baker's program management. The Life Sciences Building is home to the Biology and Psychology Departments and the Quin Curtis Center, as well as an Animal Facility group to support the research. Key components of the \$49,000,000 facility include 29 teaching and research labs, 10 holding rooms for research animals, six greenhouses on rooftop with temperature and humidity controls, a 265-person capacity auditorium, a 125-person capacity lecture hall, and four classrooms. Multi-level entrances encourage and enhance the flow of pedestrian traffic from the adjacent neighborhood while defining the northern border of the campus. The structure's facade incorporates both traditional and innovative building materials. Brick was used to match the nearby Woodburn Hall, while pre-painted copper soffit and siding with matching frit glass was incorporated to project the image of a new, yet ageless, high-tech facility.



Wise Library Renovation and Expansion

The university's new 90,000-square-foot addition to and 120,000-square-foot renovation of the historic Wise Library was one of the five projects constructed at the Morgantown, West Virginia, campus under Baker's program management. The Wise Library contains more than 300,000 books and processes over 1,200 visitors daily. The library is now equipped with electronic classrooms, group study rooms, 180 public computers, wireless web capabilities, and reading tables with electric power and data capabilities. The renovation focused on the restoration of two large reading rooms and original furniture. The combined construction cost for both the new addition and renovation work was \$37,000,000.



New Student Recreation Center

The new 170,000-square-foot Student Recreation Center provides a focal point for campus life and includes seven basketball courts, three racquetball courts, a squash court, a 17,000-square-foot weights/fitness area, three multi-purpose sports rooms, a three-story tall indoor rock climbing wall, large lap swimming pool, leisure pool, spa, elevated indoor jogging track, food court area, and administrative offices. The building was designed to serve the entire student population, along with university staff.



Creative Arts Center Facility Condition Assessment

Located at WVU's Evansdale Campus, the Creative Arts Center is the focal point for the arts, music, theatre, and other cultural amenities and serves the needs of both WVU and the City of Morgantown as a venue for national performers and a learning environment for students in the fine arts and graphics arts programs. Baker conducted a facility condition assessment that identified the building's physical and programmatic deficiencies to determine a capital spending program for improvements. The university's goal was to maximize the facility's potential for expansion, as well as its adaptability. Tasks performed by Baker in determining physical deficiencies and documenting the facility's



existing condition include conducting site visits, reviewing drawings, and meeting with university representatives. Baker prioritized the physical deficiencies according to need for correction, and identified the optimal solutions to be implemented by the university and associated budget requirements, as well as potential phasing and implementation schedules.

Creative Arts Center Renovation

Following Baker's recommendations from its facility condition assessment of the Creative Arts Center, renovations were completed for the 1,445-seat theatre, 155-seat recital hall, administrative offices, main lobby, and ticket office. Renovations included upgrading the entire building to conform to current safety codes through the installation of a fire alarm and sprinkler system. Americans with Disabilities Act requirements were addressed through the installation of handicap-accessible restrooms, numerous access ramps, and specially designed seating areas. In addition, new stage rigging equipment was installed in the theatre to allow for better and larger productions.



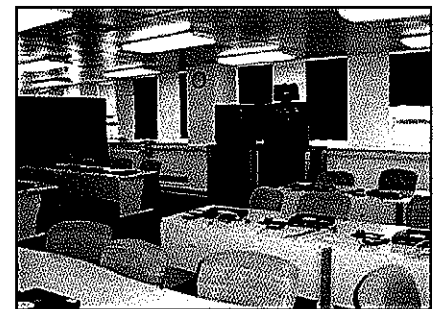
Allen Hall HVAC Upgrade and Asbestos Abatement

In the late 1960s, Allen Hall was constructed as a 104,885 GSF addition to Percival Hall. Baker was responsible for providing complete design services to upgrade the facility which included extensive asbestos abatement and interior renovations, including an HVAC system upgrade. Baker's services ranged from preliminary field investigations to construction administration. Asbestos remediation services included the removal of asbestos-containing fireproofing on structural steel and metal decking, fitting insulation on domestic water piping, and asbestos-containing floor tile and adhesive. The design also involved the cleaning, removal, and/or encapsulation of asbestos-contaminated building components such as ceiling tile, non-asbestos-containing pipe insulation, electrical floor duct banks, walls, floor surfacing materials, pipe chases, perimeter fan coil unit enclosures, and other building components. Hydronic heating and cooling piping and insulation serving the perimeter two-pipe fan coil units was replaced because it had deteriorated due to condensation between the piping and the elastomeric insulation.



Baker conducted site investigations to identify partition revisions required for the drawings of existing conditions provided by WVU and to identify specific areas requiring special protection considerations during the remediation work.

An Asbestos National Emissions Standards Hazardous Air Pollutants report was prepared as required by the EPA. The university's drawings were updated to document existing conditions for general construction partitions, the sprinkler system, HVAC ductwork, and the fire alarm system. Baker prepared a Site Setup Plan as well as plans and specifications for asbestos abatement and building renovations that included ceiling/lighting restoration, sprinkler system extensions, hot and cold domestic water piping insulation replacement, and hydronic heating/cooling pipe and insulation replacement. Baker's services also include development of contractor prequalification packages, design and construction schedules, construction cost estimates, bid and construction documents, shop drawings, and a final punchlist, as well as participation in bi-weekly construction meetings.



Clark Hall and Boreman Hall South Roof Assessments

Baker was responsible for site investigations, evaluation, and scope definition for the repair and replacement of the roof systems for both Clark Hall and Boreman Hall South. Baker performed a comprehensive observation of the roofs to develop preliminary design data. The detailed assessment of the structures' roofs, vertical wall construction, and installation aided in the development of design criteria, based on environmental and operational constraints. Baker performed cross-sectional analyses of core samples of the roofs, sealant, and coating system assemblies. Cost

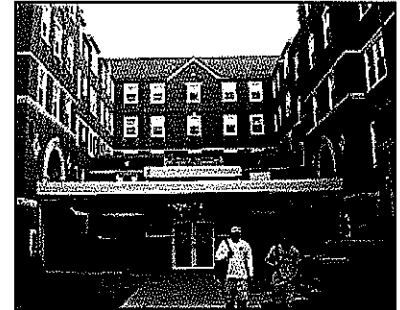


estimates were developed based on primary roofing, waterproofing, and related components. Baker also made recommendations for repair or replacement based on the assessments and on the information provided by the university pertaining to chemicals that may be potentially exhausted from the fume collection hoods.

Following the initial discovery period, and upon the university's concurrence, Baker prepared design construction documents for the re-roofing of both facilities. A low-cost design specification was developed for Clark Hall that provided for short-term protection from further damage to the roof and building interior until the university could obtain budget approval for a more comprehensive long-term solution.

Boreman Hall South Roof Repairs

Following the roof assessment of Boreman Hall South in 2003, Baker was tasked to prepare construction documents for repair/replacement of the structure's steep-slope slate tile roof, low-slope membrane roof sections, and gutter system. The replacement of the roof system included verification of the slate type and identification of a replacement source for the tile, field verification of the roofing substrate, and gutter repairs. In addition to creating design construction documents for the project, Baker provided a list of prequalified roofing contractors experienced in the installation of the specific roofing assemblies. Baker's services during the construction phase included conducting a pre-bid meeting with interested contractors, assisting in bid reviews and contractor selection, conducting a pre-construction meeting and weekly progress meetings, preparing the final punchlist, and securing project closeout on behalf of the university.

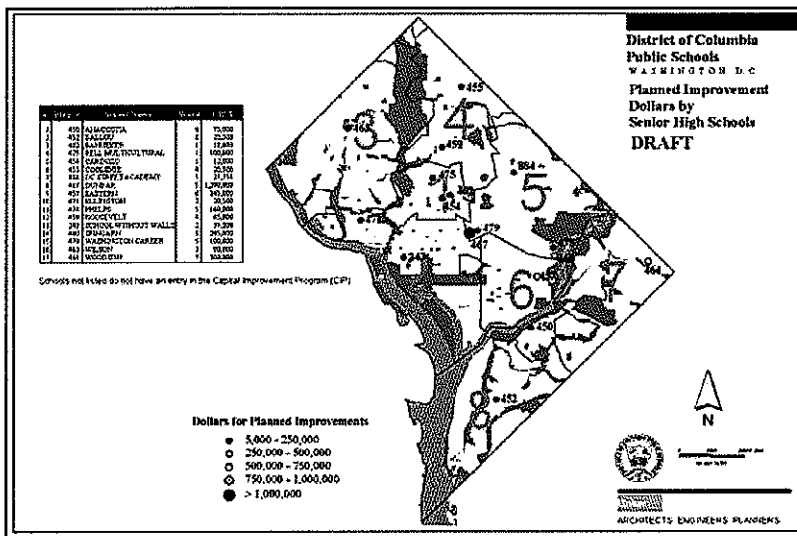




Educational Facilities Master Plan

District of Columbia Public Schools; Washington, DC

From a legacy of deteriorated buildings, delayed school openings, and highly publicized lawsuits related to facilities, Baker worked with the District of Columbia to transform the educational facilities system to a model of planning excellence. Development of the Master Plan had two primary goals: to provide a flexible management tool for tracking and prioritizing facility deficiencies that can respond to budget and policy changes; and to provide facilities that enhance the educational process.



The transformation began with a study of each of the 146 schools and 40 other facilities that form the system, including a detailed facilities condition analysis and educational issues impacting facilities. A systematic analysis was then performed to examine facility, educational, real estate, budget, and schedule issues. Regular public forums were held to ensure that educators, students, and other citizens had an opportunity to contribute to the process. The result of the process was a logical and realistic strategy for upgrading the District's schools, as well as a Geographic Information System that allows management to respond quickly to changing scenarios.

In addition to the Master Planning work, Baker provided planning, architectural, and engineering services for renovation projects that will continue over the next three years. One of Baker's first tasks under this contract was the inspection of chronically problematic roofs at three schools and the central administrative facilities office, and the design for the renovation of these facilities. Baker has been tasked with writing a standardized Design/Build RFP to be used for all DC Schools' design/build projects. Architectural and engineering design services are being provided for the renovation of the science technology laboratories at Ballou High, and for the renovation/replacement of Barnard Elementary School, a 650-student elementary school in Northwest Washington.

Client

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

David Morrow
410-962-6091

Completion Date

2004

Project Costs

\$2,237,811 (Fee)

Baker's Role

- Master Planning
- Public Involvement
- Programming
- Site Surveying
- School Inspections
- Architectural Renovations
- Construction Documents
- Construction Management
- GIS
- Project Scheduling
- Cost Estimating
- Land Appraisals
- Permitting
- Recreation Facilities
- Coordination with DPW



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

- b. Provide references for the last five clients for whom the firm has conducted projects of a similar size and type, specifically day care facility design and specification preparation experience; include the name of the customer contact person along with the addresses, telephone numbers and short description of the project.

Project Information	Reference Contacts
<p><i>Child Development Center, Oceana Naval Air Station; Virginia Beach, Virginia</i> The new Child Development Center is a one-story facility, of approximately 29,000 square feet. The facility, which accommodates 280 children, is comprised of five infant activity rooms, four pre-toddler activity rooms, four toddler activity rooms, six preschool rooms, a commercial kitchen and laundry, a two-story reception lobby and other administrative spaces. Four outdoor play areas, divided by age group, are provided.</p>	<p>Naval Facilities Engineering Command, Atlantic Division 6506 Hampton Boulevard Norfolk, VA 23508-1278</p> <p><i>Stephen D. Emrick, P.E.</i> Supervisory General Engineer 757-433-2619</p>
<p><i>Child Development Center, Naval Base San Diego; San Diego, California</i> Baker provided design services for a 31,000-square-foot Child Development Center for the Navy at Naval Base San Diego, California. The single-story structure accommodates 306 infants through pre-school children and approximately 60 staff members.</p>	<p>Soltek Pacific Construction Company 2424 Congress Street San Diego, CA 92110-2888</p> <p><i>James Altma</i> Project Manager 619-296-6247</p>
<p><i>Child Development Center; Hill Air Force Base, Utah</i> Baker provided design management, engineering, and architectural services for this design/build project to construct an additional Child Development Center at Hill Air Force Base. The one-story, 35,579-square-foot facility accommodates 266 infants through pre-school children, with future build-out capabilities to increase the capacity to 304 children.</p>	<p>U.S. Army Corps of Engineers, Sacramento District 1325 J Street Sacramento, CA 95814-2922</p> <p><i>Steve Gladwell</i> 801-777-2206</p>
<p><i>Child Development Center and Central Issue Facility Fort Drum, New York</i> Baker provided design charrettes, programming data, and architectural and engineering services to assist the Army in preparation of programming documents for a Child Development Center and a Central Issue Facility. The Child Development Center for pre-school children under six years of age is planned for construction to provide the required care for 100 children.</p>	<p>U.S. Army Corps of Engineers, New York District Jacob K. Javits Federal Building 26 Federal Plaza New York, NY 10278-0900</p>
<p><i>Child Development Center Complex, Design/Build RFP Documents; Fort Drum, New York</i> Baker provided architectural and engineering services for the preparation of Design/Build RFP Documents for a second Child Development Center Complex to be constructed at Fort Drum, New York. The 24,050-square-foot complex for 232 children serves ages six weeks to five years to include infants, pre-toddlers, toddlers, and pre-school age children.</p>	<p><i>Anthony B. Felder</i> Project Manager 315-586-3022</p>