



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
GSD116434

PAGE
1

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

RFQ COPY
 TYPE NAME/ADDRESS HERE

Baker

MICHAEL BAKER JR., INC.
 5088 West Washington Street
 Charleston, WV 25313

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	FOB	FREIGHT TERMS
02/02/2011				

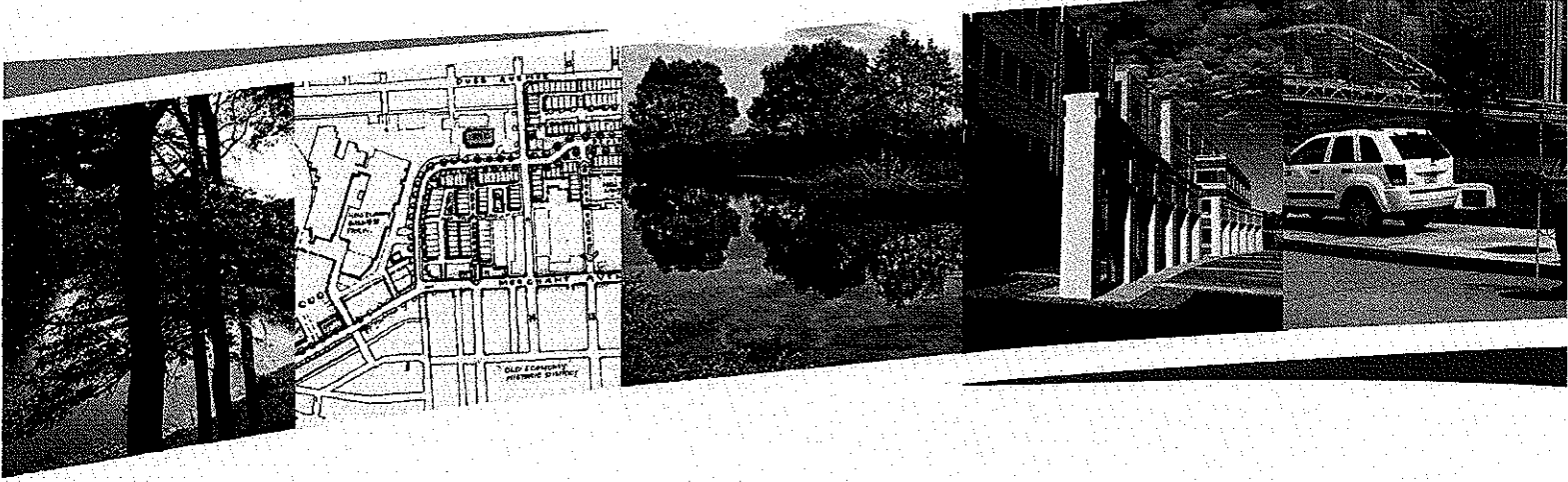
BID OPENING DATE: **03/01/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-07		
<p>A&E SERVICES: REDESIGN OF EAST CAMPUS PARKING LOTS</p> <p>EXPRESSION OF INTEREST (EOI)</p> <p>ARCHITECTURAL/ENGINEERING SERVICES</p> <p>THE WEST VIRGINIA DIVISION OF PURCHASING FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF GENERAL SERVICES, IS SOLICITING FOR EXPRESSIONS OF INTEREST TO PROVIDE ARCHTECTURAL AND ENGINEERING SERVICES TO EVALUATE AND REDESIGN THE AREAS OF THE EAST MAIN CAMPUS PARKING LOTS PER THE ATTACHED SPECIFICATIONS.</p> <p>TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO KRISTA FERRELL IN THE DIVISION OF PURCHASING 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 FEBRUARY 15, 2011 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM TO THIS EOI ISSUED BY THE PURCHASING DIVISION.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p>NOTICE</p>						

RECEIVED
 2011 MAR -1 AM 11:49
 WV PURCHASING DIVISION

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE <i>[Signature]</i>	TELEPHONE (304)769-0821	DATE March 1, 2011	
TITLE Assistant V.P.	FEIN 25-1228638	ADDRESS CHANGES TO BE NOTED ABOVE	

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



Expression of Interest to provide

**Architectural/Engineering Services for the
East Main Campus Parking Lots**

**WV Department of Administration
General Services Division
Kanawha County, West Virginia
GSD116434**

submitted to:

Ms. Krista Ferrell, Buyer Supervisor
Purchasing Division
2019 Washington Street, East
Charleston, West Virginia 25305-0130

submitted by:

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

Baker

Creating Value ... Delivering Solutions.

March 1, 2011



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
GSD116434

PAGE
2

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

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

Baker

MICHAEL BAKER JR., INC.
 5088 West Washington Street
 Charleston, WV 25313

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	FOB	FREIGHT TERMS
02/02/2011				

BID OPENING DATE: **03/01/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>A SIGNED EOI MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE EOI SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE EOI MAY NOT BE CONSIDERED:</p> <p>SEALED EOI</p> <p>BUYER: KRISTA FERRELL-FILE 21</p> <p>EOI. NO.: GSD116434</p> <p>EOI OPENING DATE: MARCH 1, 2011</p> <p>EOI OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR EOI: (304)769-0822</p> <p>-----</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY): Patrick W. Fogarty</p> <p>-----</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Patrick W. Fogarty</i>	TELEPHONE (304)769-0821	DATE March 1, 2011
TITLE Assistant V.P.	FAX 25-1228638	ADDRESS CHANGES TO BE NOTED ABOVE

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

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

March 1, 2011

Ms. Krista Ferrell,
Purchasing Division
2019 Washington Street, East
Charleston, West Virginia 25305-0130

**Subject: Expression of Interest to Provide A/E Services
GSD116434**

Dear Ms. Ferrell:

Michael Baker Jr., Inc. (Baker) is pleased to present our qualifications and experience as they relate to the subject project for the General Services Division. During your review of the enclosed information, you will see that Baker has completed or is currently working on project assignments *identical* to those outlined in the *Request for EOI*.

Baker is a full-service consulting firm of some 2,900 members in over 90 office locations with vast experience in all areas of civil and transportation engineering. In addition to our local knowledge of the extended Capitol Campus and our ongoing relationship with the General Services Division, Baker is a nationally recognized leader in surface transportation and has conducted numerous planning and design studies for roads, bridges and parking areas across the nation.

We propose to manage this assignment from our Charleston office which employs over 35 individuals including planners, engineers, landscape architects, architects, interior designers, surveyors, environmental specialists, and technicians to meet all needs of the General Services Division. We feel that our combination of diverse expertise, regional experience, close proximity and full-service capabilities is unique to Baker and will provide efficient, timely, personal, cost effective, and quality solutions for the General Services Division.

We have greatly enjoyed our professional relationship with the General Services Division and wish to continue our collaborative effort toward the successful completion of this important project. We would welcome the opportunity to personally present our qualifications and project approach. Should you have any questions or require additional information, please contact the undersigned at (304) 769-0821 or by e-mail at pfogarty@mbakercorp.com.

Very truly yours,

Michael Baker Jr., Inc.


Patrick W. Fogarty, PE, PS
Civil Services Group Manager

Enclosure

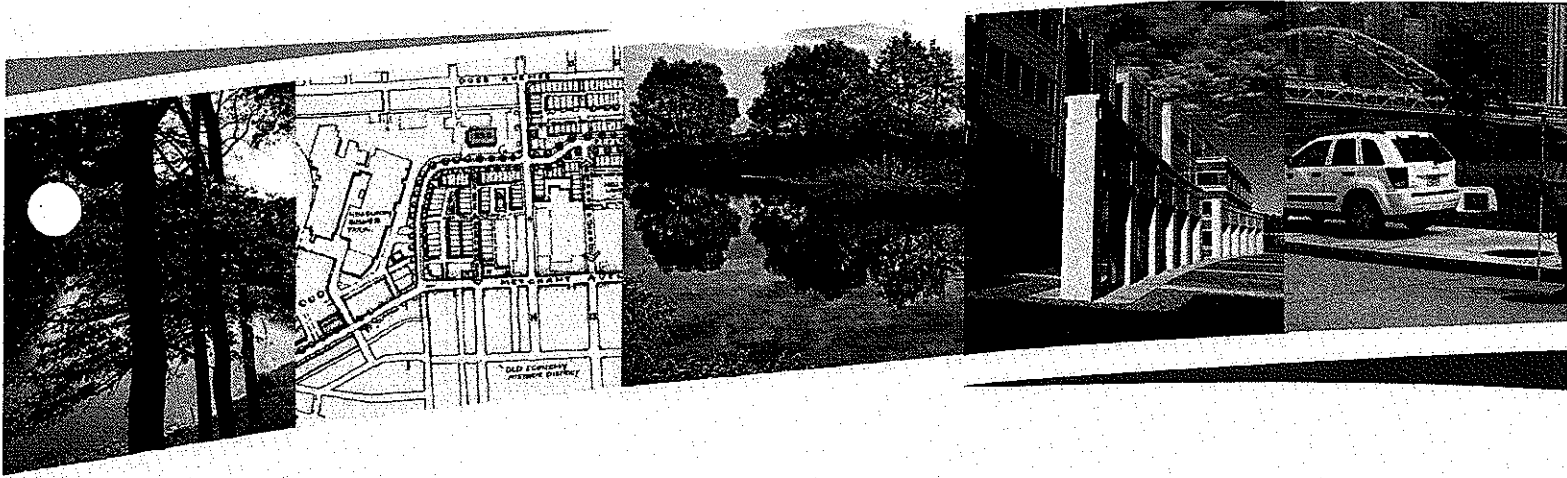


Table of Contents

Introduction	1
Corporate Capabilities	1
Cost Accounting System.....	3
Part 1 – Concept.....	4
Concept Planning Phase.....	4
Design Development Phase.....	4
Construction Documents Phase.....	4
Bidding Phase	5
Construction Phase.....	5
Part 2 – Firm Qualifications	6
Part 3 – Project Organization	9
Part 4 – Demonstrated Experience	11
Organizational Chart/Resumes	12
Additional References.....	13

Introduction

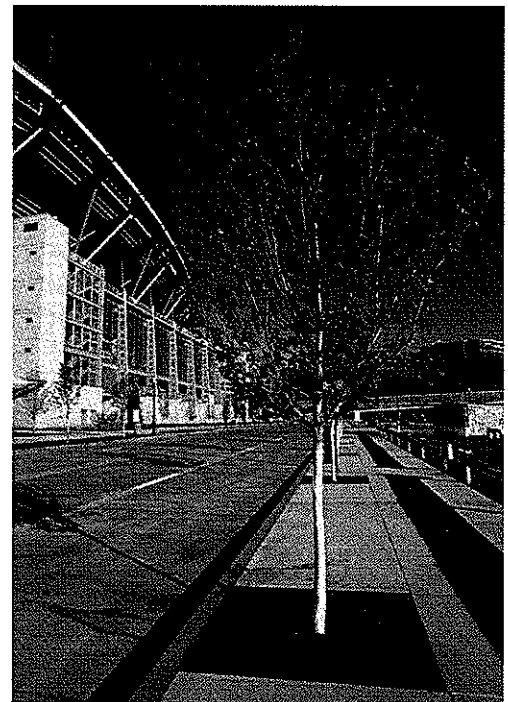
The WV Department of Administration General Services Division is seeking a highly qualified firm experienced in the evaluation, detailed design and preparation of construction documents for parking areas and associated amenities that will be both functional and compatible with future growth potential. Michael Baker Jr., Inc. (Baker) is a highly qualified firm with extensive experience in providing these services, and we are extremely interested in perpetuating our professional relationship with the General Services Division (GSD).

"...we are extremely interested in perpetuating our professional relationship with the GSD."

Corporate Capabilities

Baker is a wholly owned subsidiary of the Michael Baker Corporation (a publicly owned company traded on the American Stock Exchange), employs over 2,900 people in 90 offices world-wide, and ranks in the top 10% of the nation's top 500 engineering firms. Baker provides consulting, engineering, architecture, operations, and technical services worldwide. The firm has a national practice with 64 offices throughout the U.S. from which to serve clients nationally. Since our founding in 1940, Baker has compiled an outstanding record of engineering design achievements including more than 1,000 bridges of every description and over 100,000 miles of roadway. We are committed to using computer technology and provide services in the areas of Facilities Design, Water Resources, Environmental Design and Permitting, Geographic Information Systems, GPS and Field Data Collection, Infrastructure Management, Database Development, Computer/Web Programming, and CADD.

Baker Civil is the most diverse of the firm's five operating groups, providing services in surveying, planning, mapping, GIS, design, site development projects, municipal water and wastewater facilities, geotechnical engineering, environmental permitting, construction management and program management for fiber optic cable routes, pipelines, hydroelectric development, dams and impoundments, marine facilities, commercial developments, and recreational facilities. In the private sector, services are



PNC Park, Pittsburgh, Pennsylvania

primarily provided to real estate developers, telecommunications, electric, natural gas, oil, and coal companies.

Recent major projects that typify Baker's civil/site development capabilities include:



PNC Park, Pittsburgh, PA

- Engineering services in the development of Treesdale, north of Pittsburgh, Pennsylvania, a 1,250-acre planned recreational and residential community built around a 27-hole championship golf course designed by Arnold Palmer.
- Master Plan preparation for the City of Parsons Comprehensive Parks and Recreation Plan, including \$17.9 Million in proposed improvements to be implemented in three phases over a 10-year period, with recommendations for funding initiatives.
- Full range of engineering services for Metro Properties' development of an approximately 175-acre parcel of land as a commercial/retail area including a Wal-Mart, Sam's Club, Home Depot and five restaurants.

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

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

- Nationally recognized expertise in Municipal Infrastructure Projects;
- Transportation (Roadway, Bridge, Access and Parking) Plan Preparation;
- Graphic Design Skills (CADD); and
- Coordination with City, State and Federal Agencies, as required.

"Baker has evolved into one of the leading engineering and energy services firms by consistently providing targeted solutions for its clients' most complex challenges."

Baker's Charleston office is a "single-stop resource" capable of providing comprehensive professional services, from urban planning, final design, and construction management through operational support. From major new building facilities, bridges and roadway designs to surface mine permitting and water resource projects, Baker has evolved into one of the leading engineering and energy

services firms by consistently providing targeted solutions for its clients' most complex challenges.

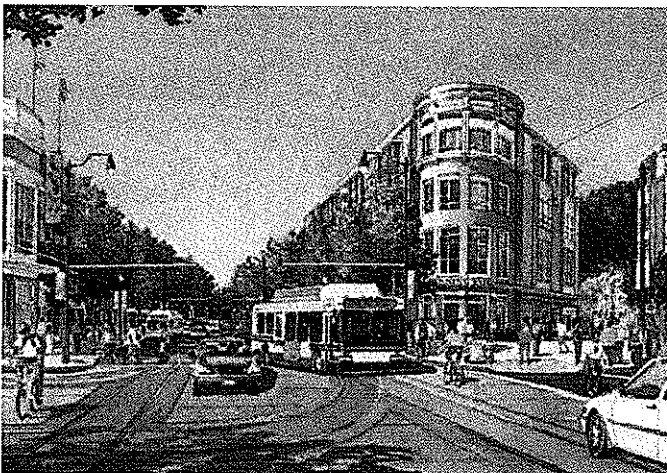
Baker's clients for vehicular and non-vehicular access systems, street beautification and parking area projects include, but are not limited to, the Counties, Cities, Towns, and local municipalities, numerous State Departments of Transportation, Military facilities, airport complexes, and private sector clients. Baker's geographic location and extensive experience enables us to quickly respond to wide-ranging scopes of service in order to meet client needs.

Cost Accounting System

Baker's cost accounting system segregates and accumulates costs by project and by task within each project. Through our work on past Transportation Enhancement projects, the WVDOH is familiar with this system. A current Cost Accounting Information Statement is on file with the WVDOH and is available upon request.



*"Great Streets" corridors,
Washington, D.C.*



Part 1 – Concept

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

Technical Approach

Based upon our knowledge of the project area, we consider this a civil engineering assignment with landscape architectural components.

Civil engineering elements include design geometrics, storm drainage, utilities issues (including storm sewer and lighting), pavement design, construction phasing, traffic control and right of way coordination. Landscape architectural elements include ADA compliance, landscaping and pedestrian traffic flow. In general, our approach will consist of the following phases:

Concept Planning Phase

During this phase Baker will collect all available data including utility maps, traffic studies, etc. We will use our E-911 mapping, and append with conventional field surveys to fill-in the gaps. Once all graphic data has been acquired, we will prepare a mosaic of the information and review for concepts and conflicts. We will then develop and execute a drilling program for the area. Once the data collection is completed, we will meet with the GSD to relay our findings and to develop a conceptual plan for the facilities. Agency, utility, and adjacent landowner coordination will also be executed during this phase.

Design Development Phase

Once concept designs have been approved by the GSD, Baker will prepare the Preliminary Engineering Report and Cost Opinion. A 50% Design Submittal including construction phasing plan will also be prepared for review and approval.

Construction Documents Phase

Upon receipt of comments for the Design Development submittal, Baker will prepare construction plans, technical specifications, bid documents, final construction phasing plan, cost estimates, and all necessary permit applications. Agency, utility and land owner coordination will also be executed during this phase.

Bidding Phase

During this phase, Baker will assist with the Pre-Bid Conference and prepare any necessary Addenda exhibits.

Construction Phase

Initially, Baker will request insurance and scheduling information from the successful bidder. Upon Notice to Proceed, construction administration services will begin, consisting of shop drawing review, processing requests for information, monitoring construction progress, attending construction meetings, reviewing payment applications, and providing periodic construction inspection.

Part 2 – Firm 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, 2nd Floor
 Charleston, West Virginia 25313

Contact: Russell E. Hall, P.E., P.S.,
 Assistant Vice President
 (304) 769-0821
rhall@mbakercorp.com

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

Michael Baker Jr., Inc. – Proposed Personnel	
Name	Function
Russell Hall, PE, PS	Principal-In-Charge
Patrick Fogarty, PE, PS	Management/Civil Engineering
Jack Justice, PE, PS	QA/QC Officer
Todd Schoolcraft, PLA	Landscape Architecture
Tracy Rapp, PE	Electrical Engineering
David Hilliard, EI	Utilities
Joseph Crowder, PS	Surveying and Mapping

Additional information on our proposed team is listed in Part 3 of this document.

-
- c. *The design team must have expertise in the A/E areas previously mentioned and required to complete this project. Provide information on all other project consultants, sub-consultants, and firms proposed to be employed by the lead firm for this project.*

We propose to engage the services of NGE for any subsurface investigations that may be required. NGE is a St. Albans, WV based geotechnical firm with whom we have collaborated successfully for these services on transportation-related projects over the past 6 years. NGE is also a WV Certified WBE.

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

The professional staff at Baker along with our drilling sub-consultant, NGE, has the educational background, expertise, and technical knowledge to undertake and successfully deliver this project in its entirety.

- 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 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.*

Local, State and Federal regulations with respect to coordination, permitting and funding are considerations during nearly every project within Baker. Our design work therefore, takes this into consideration. Each of our representative project profiles included herein are evidence to our continuing effort to work within the applicable regulations, based upon the type of work, for the given region.

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

Baker is involved in such claims, arbitration proceedings and suits as is typical for the work which we perform. 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 State 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.

Part 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 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.*

As Principal-In-Charge, **Russell Hall, P.E., P.S.**, will ensure that all required resources including staff and equipment are available to the project manager to execute the project successfully. Mr. Hall has over 25 years of experience in transportation engineering working in both the government and private sectors. Mr. Hall has been responsible for the design and management of multiple transportation projects of varying size and complexity.

Patrick Fogarty, P.E., P.S., is the Civil Services Group Manager and will serve as Project Manager and Engineer-of-Record. Mr. Fogarty has over 26 years of experience with civil engineering projects of various size and levels of complexity. Mr. Fogarty will ensure that quality deliverables are submitted according to project schedule and within budget. With his unequalled expertise in management and design, we feel he would be a tremendous asset to the GSD for this project.

Todd Schoolcraft, PLA, ASLA. Mr. Schoolcraft has over 19 years of experience in site planning and landscape architecture. Mr. Schoolcraft will assist Mr. Fogarty in the preparation of the bidding documents, construction plans, and project manual. His experience includes numerous streetscape, parking lot, sidewalk, urban planning and trails/greenways projects.

Jack Justice, P.E., P.S. Mr. Justice has over 48 years of engineering experience and will provide quality assurance services for this project. He spent 36 years with the Federal Highway Administration where he performed design review of numerous highway and bridge projects in the states of Pennsylvania, Maryland, Delaware and West Virginia prior to joining Baker.

Tracy Rapp, P.E., is an electrical engineer with more than 26 years of experience in electrical design of commercial, industrial, institutional and government facilities. Mr. Rapp will provide the electrical lighting design services for the project.

David Hilliard, EI has over 20 years of mechanical/electrical engineering experience and will provide utilities design and coordination services as it relates to power supply and overhead/underground utilities.

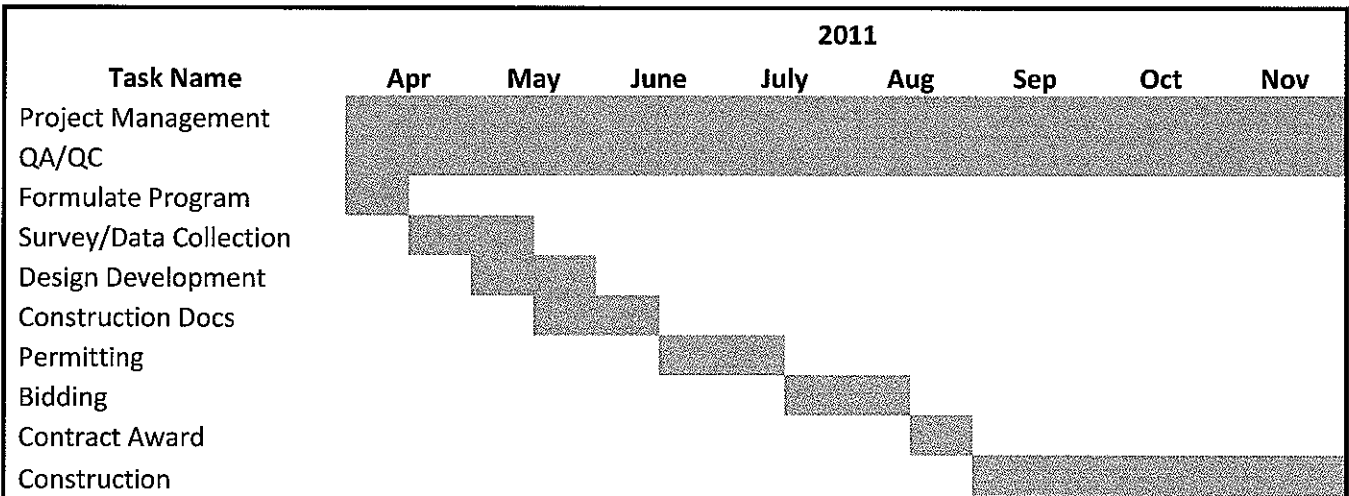
Joseph Crowder, P.S., is a Professional Surveyor, and engineering technician with over 17 years of diverse experience in civil, environmental, and

construction management assignments. Mr. Crowder will be responsible for the data collection associated with surveying, easements, and rights-of-way.

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

Baker's proposed schedule and time frame will require a collaborative effort with the GSD. We are submitting the following schedule as a tentative timeline consistent with our proposed approach to execute the project in a timely manner. Although no completion dates were included in the Request for EOI, Baker will work with the GSD to develop a schedule to meet the desired timeframe.

It is assumed herein that we would be under contract and receive Notice to Proceed during the month of April, 2011. Baker is capable of compressing this schedule if required.



Part 4 – Demonstrated Experience

The following Project Descriptions illustrate Baker's related prior experience. We have included examples of projects from various regional. While we propose to conduct all activities from our West Virginia operation, these diverse project locations are meant to emphasize our **One Baker** philosophy. Which simply means that the GSD will have access to the human resources, expertise, and technology of all Baker locations should the need arise.

In addition to this project experience, members of Baker's Charleston office have established relationships with many potential regulatory agencies including:

- Federal Highway Administration (FHWA);
- US Environmental Protection Agency;
- WV Department of Transportation / Division of Highways;
- WV Department of Environmental Protection;
- City of Charleston.

Alleghany High School Parking Lot Renovations

Sparta, North Carolina

Baker was retained by the Alleghany Public School Board for renovations to the high school parking lot. All bus traffic for the high school as well as faculty and the majority of student parking was directed through one ingress/egress point. Additionally, the lot overhead utility pole impediments and was not properly striped for a circular flow path. These conditions created tremendous traffic congestion with numerous accidents involving student drivers and parents. Further, the asphalt parking lot exhibited fatigue and deterioration as well as storm water issues.

Working within a limited budget, Baker developed a pavement restoration plan, designed an additional entrance, coordinated utility relocations, provided a striping layout to accommodate the safe circulation of automobiles, buses and pedestrians, provided landscaped screening from the entrance road and added new storm water infrastructure.



Center sidewalk was removed to establish circular traffic flow.

Client

Alleghany County Schools
85 Peachtree Street
Sparta, NC 28675-9210

Dr. Jeff Cox
Superintendent
336-372-4345

Completion Date

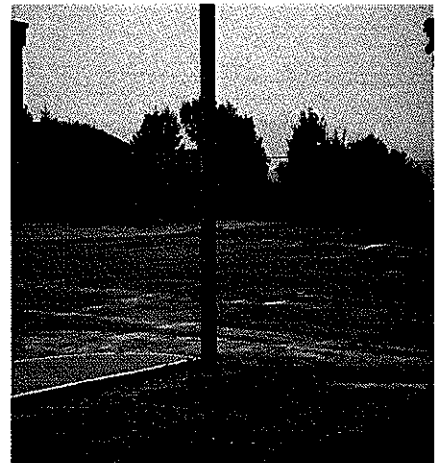
2008

Project Costs

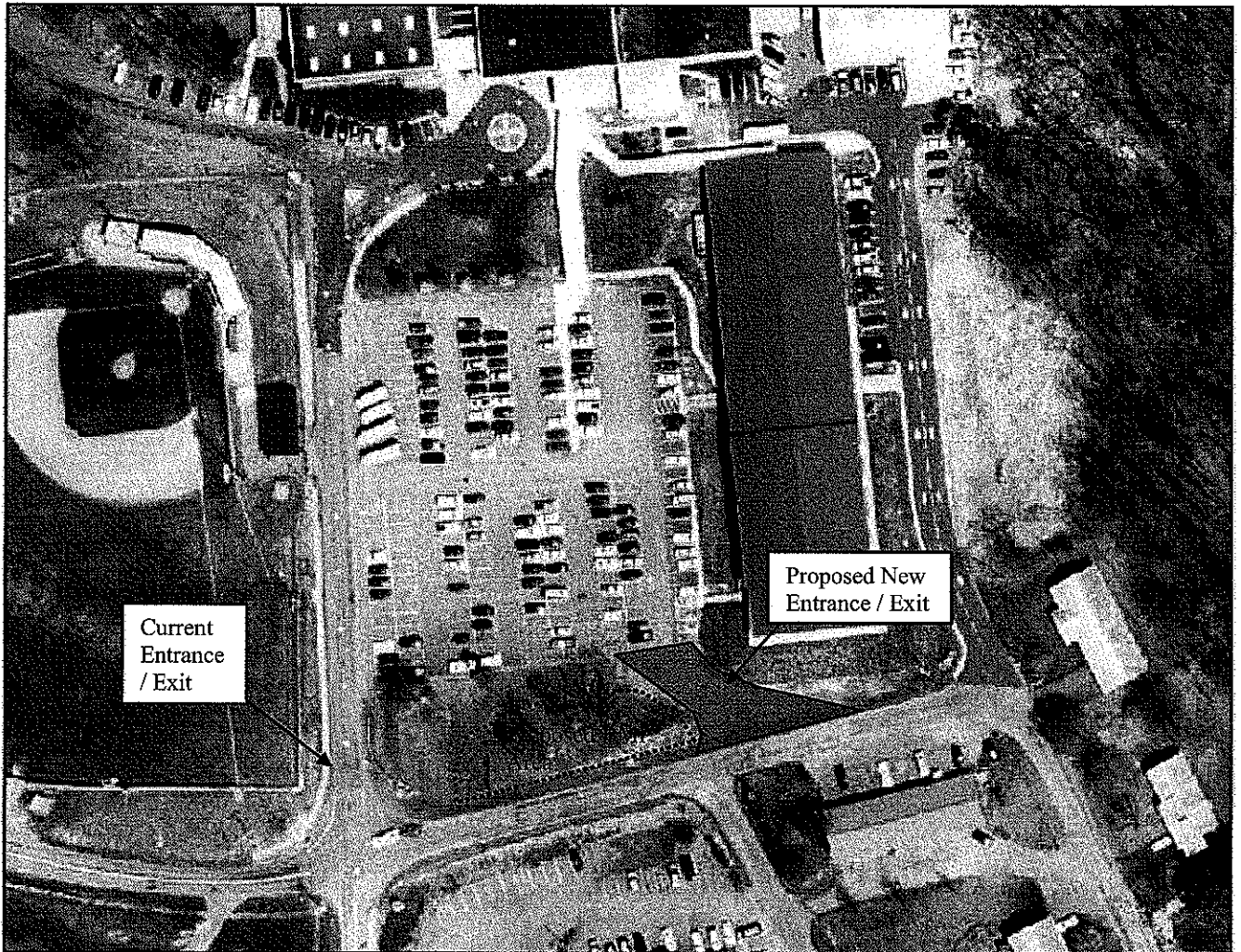
\$10,500 (Fee)

Baker's Role

- Project Management
- Schematic Design
- Civil Engineering
- Landscape Architecture
- Utility Relocations
- Construction Documents



Utility pole was relocated to edge of parking lot to improve traffic flow.



Pennsboro Trailhead Improvements, Historic Depot and Old Stone House Restoration

North Bend State Park Rail-Trail, Ritchie County, West Virginia



The small town of Pennsboro lies quietly to the north of Route 50 in eastern Ritchie County, WV. The town was once a stop on the Northwest Turnpike. The Northwest Turnpike was one

of the main roads west in the early days of the country running from Winchester Virginia to Parkersburg (now West Virginia). Later the town was a stop on the Baltimore and Ohio Railroad that ran between Clarksburg and Parkersburg (Washington DC and Cincinnati Ohio to be more precise) and provided another great transportation link. During those days Pennsboro was a thriving little town with a famous raceway and a glass factory.

Over the years the turnpike became Route 50 and the railroad pulled up its tracks. The Pennsboro Speedway was also replaced by newer tracks in the region and the glass factory was forced to close its doors as well. Today Pennsboro is trying to hold onto its history and past while embracing the future.

The Old Stone House was a place for Americans headed for the frontier to rest their weary bones for a night. Originally built in 1810, the house kept on serving east-west travelers along U.S. 50 well into the 20th Century. Now the house serves a museum to the time period in which it was built. The residents also have preserved the train depot in town commemorating the town's place in America's railroad heritage.

Client

City of Pennsboro and
Ritchie County Historical Society
422 Main Street
Pennsboro, WV 26415

Norma Davis, Project Manager
(304) 481-8981

Completion Date

July 2010

Project Costs

\$362,176 (Construction)

Baker's Role

- Landscape Architecture
- Civil Engineering
- Stormwater Management
- Construction Plans and Specifications
- Cost Estimating
- Bidding
- Construction Administration
- Periodic Construction Inspection





The former Baltimore and Ohio rail bed has become the North Bend Rail Trail. The rail trail provides over 50 miles of trail between Clarksburg and Parkersburg WV for hikers, bikers, and horseback riders. The trail includes many tunnels including some in the immediate Pennsboro area. Many Pennsboro businesses are closely located to the rail trail offering food and beverages for those on the trail. The Old Stone House and the restored depot are also located along the trail.

In an effort to develop a formal trailhead destination on the North Bend Trail, as well as preserve and further restore the Old Stone House and Depot, Ritchie County Historical Society, in cooperation with the City of Pennsboro, selected Michael Baker Jr., Inc., and Pickering Associates to develop plans and specifications, and further provide

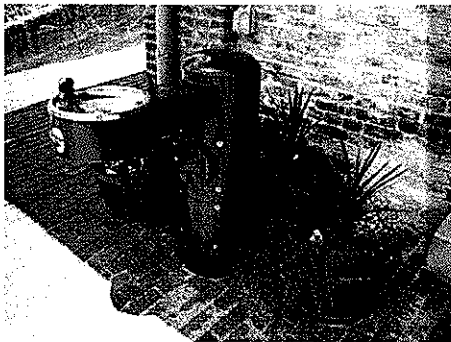
bidding and construction services for extensive facility improvements.

Trailhead improvements included a **new parking lot**, paved with pervious asphalt, the first of its kind used in West Virginia. This porous pavement allows the surface drainage to flow thru the pavement, back into the soils



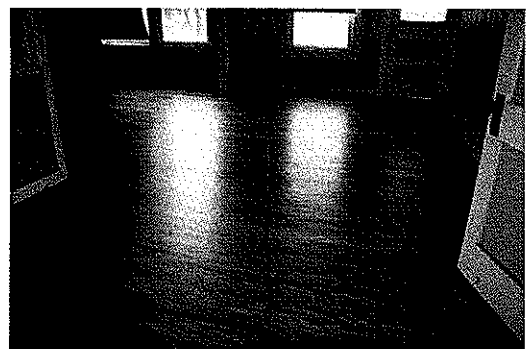
beneath, reducing runoff and recharging natural underground aquifers. New timber bumper blocks were used in the parking lot, further reducing the impervious footprint, and introducing more organic, sustainable materials into the trailhead design. A new bio-retention rain garden was also incorporated into the design, with the Depot roof drain downspouts directed into the rain garden, thus further recycling storm runoff. Amenities such as trash receptacles, picnic tables, drinking fountain, and trail resurfacing were also incorporated into the trailhead design.

Many elements of the historic Depot were also improved, including brick repair/replacement/re-pointing, replacing the existing gutters and downspouts with period-appropriate furnishes, foundation vent and crawl space improvements to reduce moisture problems, replacement of brick pavers adjacent to Depot, and reconstruction of steps and railing.



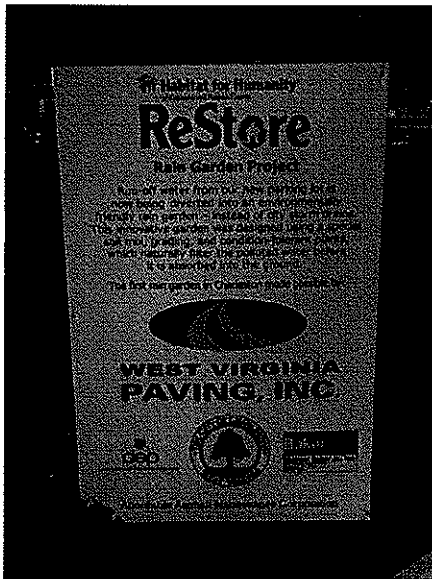
The Old Stone House improvements included extensive structural and roof

repairs such as foundation piers, replacement of deteriorated floor joists, excavating crawl space, renovation of interior floors, new truss system in the Boarding House wing, and other structural, electrical, roofing and site repairs.



Habitat for Humanity ReStore Parking Lot and Rain Garden

Charleston, West Virginia



Every design is an attempt to address a problem. The problem for the Charleston Habitat for Humanity Restore was a lack of adequate parking for both store goers and delivery trucks, combined with a desire to create a new entrance facing the back lot of their newly renovated building. Should Habitat choose to pave their lot, they would be required by City of Charleston Code to address stormwater management and to

provide on-site storage of some type. Habitat for Humanity is a non-profit organization with limited funds. Historically rain water falling on the site created a sediment laden sheet flow running across an existing street into a curb inlet. Underground piping and storage of rainwater would be required since the majority of the surface area was needed for parking. The City of Charleston also has a problem in that much of their storm sewers are older and are combined with sanitary sewers. Such is the case in the older industrial portion of the City where the ReStore is located. These are unfortunately two all too typical urban problems. Each year the West Virginia Department of Environmental Protection funds a grant program encouraging innovative and creative solutions to the problem of water pollution in threatened watersheds. Charleston is located in one such watershed. The City of Charleston was looking for

Client

Habitat for Humanity ReStore of Kanawha & Putnam County
815 Young Street
Charleston, WV 25302

Amy McLaughlin
Director
304-720-0141

Completion Date

2008

Project Costs

\$2,500 (Fee)

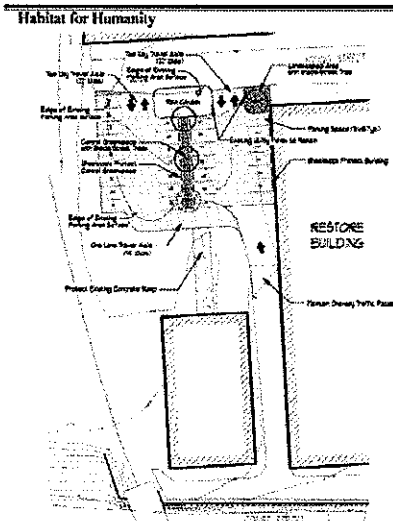
Baker's Role

- Project Management
- Schematic Design
- Construction Documents
- Construction Observation
- Public Involvement

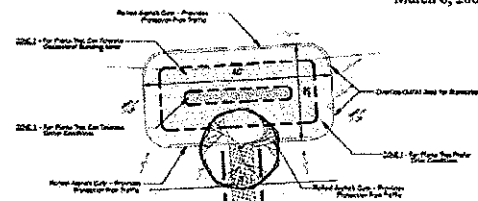
ReStore Rain Garden

Charleston, West Virginia

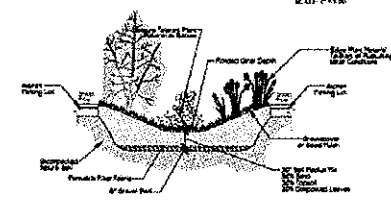
March 6, 2008



Parking Lot Layout



Rain Garden Plan



Rain Garden Typical Section





Green Low Impact Development Solutions to their urban stormwater problem, and Michael Baker Jr. delivered the solution. In the spring of 2008 Habitat obtained a grant from both the DEP and the City to construct a Rain Garden as a pilot project. This green solution would fit in with the overall philosophy of Habitat and would become a teaching tool for the community as well as a focal point to their new store entrance. Amy McLaughlin, Director of the Charleston ReStore contacted Baker to design both the parking lot and the accompanying Rain Garden. Schematic designs were presented to the client in March and final designs in May 2008. All labor and some of the materials for the project were donated with the remaining costs covered by grant funds.

Rain Gardens have been described as "Intelligent Puddles" and have become one of an arsenal of tools being used to manage rainfall at its source. Each rain garden functions as a small, cost effective landscape feature that mimics a site's predevelopment hydrology. Each rain garden includes a selection of wetland edge plants that take up excess water such as wildflowers, sedges, rushes, ferns, shrubs and small trees. As water flows into the rain garden it filters through soil layers before entering the groundwater system. Root systems enhance infiltration, moisture redistribution, and diverse microbial populations involved in biofiltration.

The overriding landscape design intent for the Habitat Garden is a naturalistic, shaded, four season's green space that will attract wildlife such as birds, bees, butterflies and ladybugs. A variety of appropriate and predominantly native plants with colorful flowers and seeds were specified. Native plants were used because they are more tolerant to local climate, soil, and water conditions. The relative diversity of the species of plantings in the garden will compensate for the natural failure of some. The true character of the garden and indeed its success as a major landscape feature on the site will not be entirely established for another two growing seasons. Since its construction the rain garden has already successfully contained, filtered and redistributed runoff from many considerable storm events this year.



U.S. 60 Virginia's Chapel Interpretive Pull-Off

Cedar Grove, West Virginia

Baker is providing engineering services for the construction of a visitor pull-off parking area with landscaping improvements, walkways, pedestrian amenities, and interpretive signage for the U.S. 60 Virginia's Chapel Interpretive Byway Pull-off Project. Baker's services include base mapping, background data collection, preliminary and final design, bid-phase support, construction management, and construction inspection.

Virginia's Chapel, also known as the Little Brick Church, was built in 1853 by a local entrepreneur. The chapel, which is located on U.S. 60, was placed on the National Register of Historic Places in 1975, and is currently used for weddings, funerals, and holiday church services. The section of U.S. 60 on which the chapel is located, between Charleston and Sam Black Church, is known as the Midland Trail, and is a National Scenic Byway. The new pull-off at Virginia's Chapel is funded by a Federal Highway Administration Transportation Enhancement Grant, and will feature a porous asphalt pavement parking lot and a bio-detention rain garden, as well as visitor amenities such as, a gazebo, picnic tables, benches, trash receptacles, and interpretive signage.

Baker will prepare preliminary and final design plans for the pull-off, including demolition, layout, and grading plans; utility coordination; and construction cost estimates. Baker will also meet with representatives of the state historic preservation office regarding project layout and location. The construction documents will include existing conditions, demolition, layout, grading, site utilities, landscaping, bidding and contract documents, and construction specifications. Baker will also prepare and submit the required construction permit applications and provide bid and construction phase services.

Client

Town of Cedar Grove
302 Alexander Street
Cedar Grove, WV 25039

Alice Hypes

Executive Director
Midland Trail Scenic Hy.
304-343-6001

Completion Date

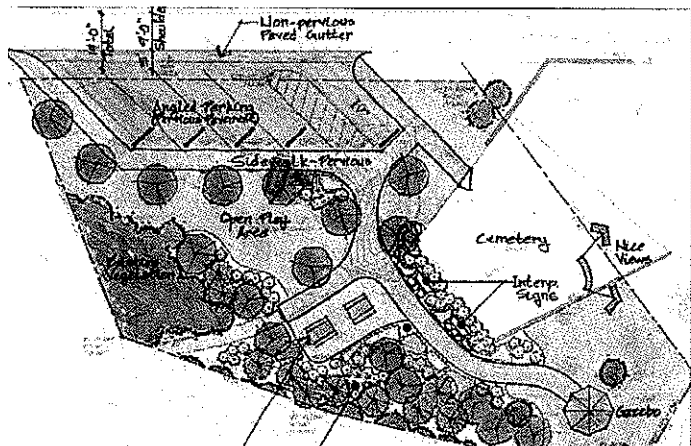
2011

Project Cost

\$150,000

Baker's Role

- Planning
- Conceptual Design
- Detailed Design
- Bidding
- Construction Administration and Inspection
- Landscape Architecture
- Civil Engineering
- Structural Engineering



Ararat River Stream Restoration, Greenway and Parks Development

Mount Airy, North Carolina



Baker worked with the Resource Institute and the City of Mount Airy to restore 3.5 miles of the Ararat River in the Yadkin-Pee Dee River Basin (a 75-square mile watershed), Surry County, North Carolina. In addition, Baker designed three community parks and over 2.5 miles of riverside greenway that links the parks along the Ararat River corridor as part of this on-going project. The project was funded through grants from the NC Clean Water Management Trust Fund (CWMTF), the NC Parks and Recreation Trust Fund (PARTF), and the NC Division of Water Resources.

The project combines restoration of a large river with design of a greenway and three parks to provide improved recreational and



From Left to Right: Elevated walkway system necessary in sensitive and topographically challenged streambank area. Overall Concept Map for the Ararat River Park system connected by the greenway.

Client

City of Mount Airy
Parks & Recreation Com.
Reeves Community Center
Post Office Box 1232
Mount Airy, NC 27030

Catrina C. Alexander
Parks & Rec. Director
336-786-8313

Completion Date

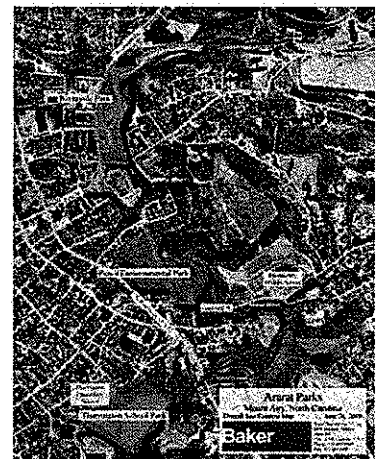
2009

Project Cost

\$4.7 million

Baker's Role

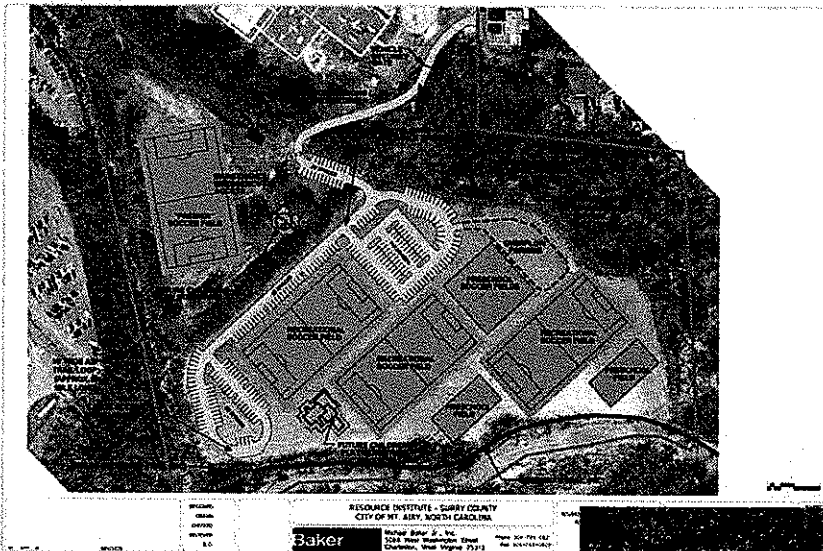
- Planning
- Conceptual Design
- Detailed Design
- Bidding
- Construction Administration and Inspection
- Landscape Architecture
- Civil Engineering
- Structural Engineering



ecotourism opportunities for the City of Mount Airy. Designs for the river restoration, greenway, parks, and structural components were developed entirely by Baker staff, and were developed within budget and on schedule. Baker provided bidding assistance for the Client and construction began during January 2009. Baker provided construction oversight for a duration of 12 months until substantial completion.

Baker prepared concept plans, construction documents and will provide construction administration and construction inspection for the entire stream restoration, greenway development, and three (3) parks along the Ararat River. The first park, Riverside Park, includes basketball courts, playground structures, parking areas, a premier soccer field, picnic shelters, nature trails, canoe launch facility, restrooms, fencing, signage and landscaping. Rowe Environmental Park will showcase sustainable design principles in the park's design and construction, including an outdoor amphitheater and educational learning center, picnic facilities, nature trails, **pervious concrete parking lot**, pedestrian bridge to the nearby middle school, fishing access and canoe launch facility. The third park design is for Tharrington Park, which included a premier soccer field, additional soccer fields to create a soccer complex, access road and **parking lot**, fitness trail, restroom facility, concessions, and a maintenance building.

This project represented a successful collaboration of three (3) regional offices; Cary, NC, Charleston, WV, and Richmond, Va, for which Baker won the ACEC-NC 2010 Engineering Excellence Grand Award in the Environmental Category.

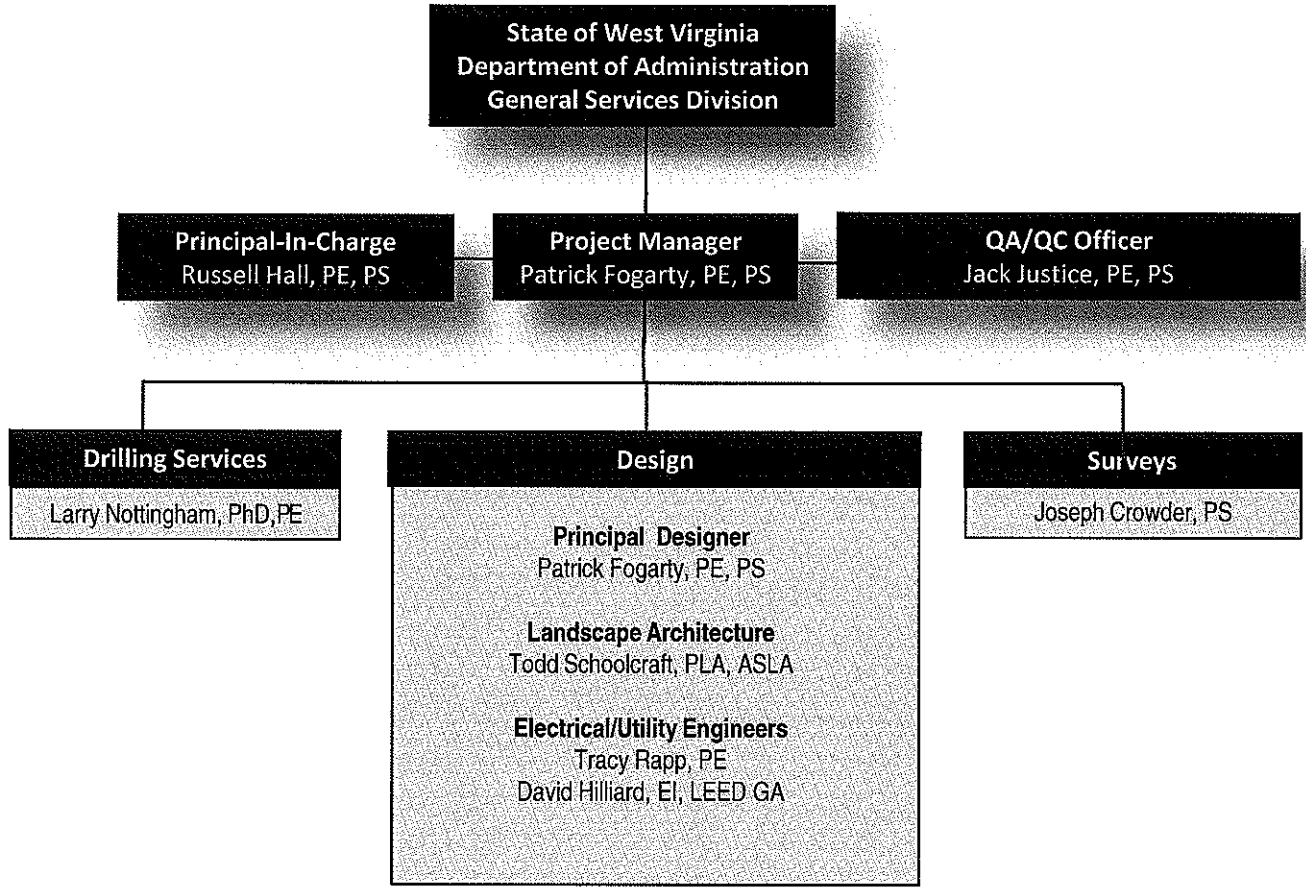


Organizational Chart/Resumes

Organization Chart

**East Main Campus Parking Lots
GSD116434**

Baker



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

Assistant Vice President and Charleston Office Manager

General Qualifications

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

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

Mr. Hall is very proud of the fact that he has been able to spend his entire career in West Virginia working to address West Virginia's transportation needs.

Experience

On-Call Engineering/Architectural Services, Yeager Airport (CRW), Charleston, West Virginia.

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

Ararat River Restoration and Greenway Design, North Carolina. *Resource Institute, Inc.* Task Manager.

Responsible for task management. Baker prepared a stream restoration design, permit documents, plan sheets, provided construction oversight and as-built report for the Ararat River Restoration Project, located in Surry County, North Carolina. This scope of work included tasks to assess the stream conditions of an approximately four mile section of the Ararat River and to restore stream channel dimension and profile for approximately 10,000 cumulative feet within the project area. A final report was completed describing all project information required by the Clean Water Management Trust Fund as part of the grant agreement.

Kanawha River Bridge, Charleston, West Virginia. *Brayman Construction Company.* Principal-In-Charge.

Responsible for oversight of Project Management. Baker's Charleston, West Virginia office redesigned seven piers for the contractor and performed a complete analysis of the superstructure and substructure to properly size the piers.

Mega Energy-Running Buffalo Clover, Parsons and Circleville, West Virginia. *Mega Energy, Inc.*

Principal-In-Charge. Responsible for oversight of Project Management. Baker conducted vegetation surveys along four proposed natural gas pipeline projects traversing the Monongahela National Forest to satisfy ESA Section 7 consultation requirements for the endangered running buffalo clover.

Years with Baker: 6

Years with Other Firms: 18

Education

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

Licenses/Certifications

Professional Engineer, West Virginia, 1990

Professional Surveyor, West Virginia, 1996

KVRTA-Disaster Response & Recovery Plan, Charleston, West Virginia. *Kanawha Valley Regional Transportation Authority.* Principal-In-Charge. Responsible for oversight of Project Management. 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.

US 35/I-64 Interchange Post Design, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Principal-In-Charge. The design phase of this project provided for the preparation of construction and right of way plans for approximately three miles of 4-lane divided highway. The construction plans were separated into three construction contracts and included the design of two interchanges, two bridges, numerous box culverts and a vehicular underpass. The post design phase of this project provided for the review and approval of shop drawings and responding to Requests for Information. Baker designed the original post-tensioned concrete box bridge. Contractor value engineered the superstructure to a steel girder bridge. Foundation for piers and abutments were as designed. Baker reviewed pile testing, mass concrete results, and MSE wall calculations provided by the contractor.

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

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 3-lane access road connecting Corridor H to private property in Moorefield, WV.

WVDOH Six-Year Bridge Inspection Program, Various Locations, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Principal-In-Charge. Responsible for oversight of project finances, schedules and quality control. Baker was responsible for performing the inspection services and report writing for the New River Gorge Bridge, Veteran's Memorial Bridge, Fort Hill Bridge, Fort Henry Bridge and Wheeling Tunnels.

Fort Pleasant Farms Two Lane Road Design, Moorefield. *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 1500' in length. This access road was designed to connect a commercial/residential development to the Moorefield Interchange on Corridor H in Moorefield, West Virginia.

Town of Moorefield-Maple Avenue Streetscape, Moorefield. *Town of Moorefield.* Principal-In-Charge. Responsible for oversight of Project Management. 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, but had no sidewalks and deep ditches 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.

Blennerhassett Island Bridge, Appalachian Corridor D, Washington County, Ohio and Wood County, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Principal-In-Charge. Responsible for oversight of project finances, schedules and quality control. The 878' - 6" long network tied arch was ranked as the longest of its type in the United States and one of the longest in the entire world. Baker provided project management, environmental and location studies, permitting, preliminary and final design as well as construction phase services.

Appalachian Corridor H, Section 6, E. Hardy County 220/8 to WV 55 Interchange, Moorefield, West Virginia. *West Virginia Department of Transportation, Division of Highways.* 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 roadway beginning 0.6 miles southeast of Hardy County 220/8 and continuing eastward 6.6 miles to an interchange with WV 55. This project included an interchange with the Moorefield Bypass, a ramp connector road south of the corridor west from the possible future Moorefield Bypass to a proposed reconstruction of US 220, a closure study of the floodwall on the north end of Moorefield near this Section 6 proposed highway location, six bridges and completion of an interchange (two ramps) with WV 55 on the east end of the project.

US 33 Streetscape Improvement Project - Phase II, Mason. *Town of Mason.* Principal-In-Charge.

Responsible for oversight of Project Management. Baker performed complete detailed design, construction document preparation and construction management services for new sidewalks and storm sewer improvements the Mason Phase II Streetscape Project. The improvements included concrete sidewalks with integral concrete curbs, driveway curb cuts, ADA accessible curb ramps with truncated domes, ladder-style crosswalks, storm sewer improvements, benches and trash receptacles. Baker provided construction administration and inspection services.

City of Parsons Sidewalk Improvements, Parsons, West Virginia. *City of Parsons, West Virginia.*

Principal-In-Charge. Responsible for oversight of Project Management. 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.

City of Charleston Bridges-Engineering Consulting Services, Charleston, West Virginia. *City of Charleston, West Virginia.* Principal-In-Charge. Responsible for oversight of Project Management. 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.

Flood Protection Options Report-Bonham Elementary School, Kanawha County. *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 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.

Kanawha-Putnam Bike/Pedestrian Plan, Phase I, South Charleston. *Regional Intergovernmental Council.* Principal-In-Charge. Responsible for oversight of Project Management. Baker performed a cursory inventory of existing bicycle and pedestrian facilities, identified areas with a high level of bicycle and pedestrian activity, collected existing resources and performed a broad base public outreach effort to identify bicycle and pedestrian issues in Kanawha and Putnam Counties for the Regional Intergovernmental Council (RIC). All data, survey results and preliminary findings were compiled for analysis and incorporation into the final plan during Phase II of the study.

Town of West Milford Sidewalk Improvements, West Milford, West Virginia. *Town of West Milford.* Principal-In-Charge. Responsible for oversight of Project Management. 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.

Non-Baker Project Experience

WV 9, Charles Town Bypass to Virginia State Line, Jefferson County. *West Virginia Department of Transportation, Division of Highways.* Project Manager. The project provided for the preparation of construction and right of way plans for an approximately five mile section of 4-lane highway. This project included the design of two interchanges, four bridges, and multiple intersections and access roads. This project was divided into seven construction contracts.

I-64 Widening, Putnam County. *West Virginia Department of Transportation, Division of Highways.* Project Manager. This project provided for the preparation of a design report and contract plans for the upgrade of I-64 to six-lane for the proposed US 35 interchange to the existing six-lane section at the 25 Street Overpass Bridge. Responsibilities included surveys, right-of-way plans, all bridges except the Kanawha River bridge crossing, and the St. Albans interchange. The project is in the final stage of the design report phase. The design report phase assesses the engineering and environmental impacts of multiple alignments and interchange configurations.

New River Parkway, Summers and Raleigh Counties. *West Virginia Department of Transportation, Division of Highways.* Project Manager. Responsibilities included all right-of-way plan development.

US 52, King Coal Highway, US 119 Mingo County to US 460 Mercer County. *West Virginia Department of Transportation, Division of Highways.* Project Manager. Provided Program Management for the entire corridor. Responsibilities included all engineering design review and approval; developed and maintained schedules; and coordinated with all resource agencies, the WVDOH, and the public. **Statewide Services Contract.** *West Virginia Department of Transportation, Division of Highways.* Project Manager. Provided construction and right-of-way development and reviews on an as needed basis.

Previous Work History

Neff, Longest, and Beam, L.L.C., Charleston, West Virginia. Office Manager. 1998-2004. Responsibilities included the duties of both project manager and office manager.

West Virginia Department of Transportation, Division of Highways, Charleston, West Virginia. In-House Design Section Head. 1996-1998. Responsibilities included the management of four design squads containing approximately 15 engineering technicians. The In-House Design staff was responsible for the design and preparation of construction and right of way plans for multiple projects throughout the state.

West Virginia Department of Transportation, Division of Highways, Charleston, West Virginia. Consultant Review Section Head. 1994-1996. Responsibilities included the management of five project managers. Each project manager was responsible for the oversight, review, and approval of consulting engineers' design work. Each manager was responsible for several consultants, most with multiple projects.

West Virginia Department of Transportation, Division of Highways, Charleston, West Virginia. Consultant Review Section Project Manager. 1991-1994. Responsibilities included oversight, review, and approval of consulting engineers' design work. Each manager was responsible for several consultants, most with multiple projects.

West Virginia Department of Transportation, Division of Highways, Charleston, West Virginia. In-House Design Section Squad Leader. 1988-1991. Responsibilities included the management of one design squads containing approximately 3 engineers and 2 engineering technicians. The design squad was responsible for the design and preparation of construction and right of way plans for multiple projects throughout the state.

West Virginia Department of Transportation, Division of Highways, Charleston, West Virginia. In-House Design Section Project Engineer. 1988-1991. Responsibilities included the design and preparation of construction and right of way plans for multiple projects throughout the state.

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

Civil Services Group Manager/Project Manager

General Qualifications

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

Experience

Ararat River Restoration, Greenway, and Parks Project, Mount Airy, North Carolina. *City of Mount Airy, North Carolina.* Civil Engineer. Responsible for the site-civil park improvements along the greenway. Baker is preparing construction documents and construction administration and inspection services for three parks along the Ararat River in North Carolina: the first park, Riverside Park, includes basketball courts, playground structures, parking areas, a premier soccer field, picnic shelters, nature trails, canoe launch facility, restrooms, fencing, signage and landscaping. Rowe Environmental Park will showcase environmental issues in the park design and construction including an outdoor amphitheater/classroom, picnic facilities, nature trails, parking area, pedestrian bridge to nearby middle school, fishing access and canoe launch facility. The final park, Tharrington Park, will include a premier soccer field, additional soccer fields to create a soccer complex, access road and parking, fitness trail, restroom facility, concessions, and maintenance building.

Town Of Harman-Water System Improvements, Harmon, West Virginia. *Town of Harman.* Project Manager. Responsible for the management and coordination of all activities. Baker is providing engineering services for the design and construction of improvements to the potable water service. Improvements include approximately 87,000 feet of two-inch through six-inch waterline to extend service to new customers;

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, WV, 1990

Professional Engineer, KY, 2000

Professional Engineer, VA, 2002

Professional Engineer, PA, 2003

Professional Engineer, OH, 1996

Professional Engineer, NC, 2008

Professional Surveyor, WV, 1993

Professional Surveyor, KY, 2001

Professional Surveyor, OH, 1996

Construction Documents Technologist, 1996

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

Asphalt Paving Tech., WV, 1991

Concrete Technician, WV, 1991

Soils Compaction, WV, 1991

Aggregate Sample Insp., WV, 1991

design of a new raw water well, 100,000-gallon water storage tank, and a booster pump station; and the upgrade of pumps and controls at the water treatment plant.

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

Parsons City-Wide Comprehensive Parks and Recreation Master Plan, Parsons, West Virginia. *Parsons Park Board, Inc.* Project Engineer. Responsible for the financial management cost estimating and submittal reviews for the project. Baker prepared a Master Plan of improvements and recommendations for existing and proposed parks and recreation amenities for the City of Parsons, WV. 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.

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

Town of Moorefield-Maple Avenue Streetscape, Moorefield. *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, but had no sidewalks and deep ditches 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 Hambleton Storm Sewer Planning and Facilities, Hambleton. *Town of Hambleton.* Project Manager. Engineer of Record responsible for the coordination of all activities. Baker was retained by the Town of Hambleton to prepare a stormwater management plan and subsequent bid documents, and construction documents and specifications for the implementation of the plan. The stormwater management study concentrated on the area from the initial collection point along State Route 72 (Center Street) down gradient to the eventual outfalls at the Blackwater River.

City of Parsons Sidewalk Improvements, Parsons, West Virginia. *City of Parsons, West Virginia.* Project Manager. Engineer of Record responsible for the coordination of all activities. 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.

Flood Protection Options Report-Bonham Elementary School, Kanawha County. *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.

US 33 Streetscape Improvement Project - Phase II, Mason. *Town of Mason.* Project Manager. Engineer of Record responsible for the coordination of all activities. Baker performed complete detailed design, construction document preparation and construction management services for new sidewalks and storm sewer improvements the Mason Phase II Streetscape Project. The improvements included concrete sidewalks with integral concrete curbs, driveway curb cuts, ADA accessible curb ramps with truncated domes, ladder-style crosswalks, storm sewer improvements, benches and trash receptacles. Baker provided construction administration and inspection services.

Valley Park Sidewalk Improvements, Hurricane, West Virginia. *Putnam County Parks.* Project Engineer. Responsible for the coordination of all engineering activities. Baker performed complete planning, design, and construction management services for new sidewalks and street improvements for access into Valley Park, Putnam County. The improvements included concrete sidewalks with integral concrete curbs, driveway curb cuts, ADA accessible curb ramps with truncated domes, crosswalks, and storm water improvements. The park sidewalks now have a unique colored stamping of natural elements found in West Virginia, such as bear and raccoon tracks, leaves and flowers. Baker also provided construction administration and periodic inspection services.

Historic Wellsburg and Bethany Scenic Byway Corridor Management Plan, Brooke County, West Virginia. *Brooke County Commission.* Project Engineer. Responsible for the management and coordination of all activities. Baker is developing a corridor management plan (CMP) for 20 miles of roadway extending from S.R. 27 near Brooke Hills Park and onto S.R. 2 to S.R. 67 near Bethany College, as part of the application process to have the corridor designated a scenic byway by the West Virginia Department of Transportation and to encourage recreational use and economic development along the corridor.

North Bend Rail Trail Historic Depot and Trailhead Improvements, Pennsboro, West Virginia. *City of Pennsboro.* Project Engineer. Engineer of Record responsible for the coordination of all civil and structural activities. Baker is providing engineering, bid support, and construction management services for the construction of improvements to the parking area of the historic B&O train depot and the Pennsboro trailhead to the North Bend Rail Trail, a 72-mile hiking, biking, and horseback-riding trail. Improvements include drainage, handicapped accessibility, drinking fountains, and landscaping.

Engineering, Construction Management, and Inspection Services for Conversion of Railroad Trestle to Hiking and Biking Trail, Parsons, West Virginia. *City of Parsons, West Virginia.* Project Manager. Responsible for the coordination of all activities. Baker is providing engineering, construction management, and construction inspection services for the conversion of an old, abandoned railroad bridge to a pedestrian and bicycle trail that will become part of the Allegheny Highlands Trail. Baker's services include base mapping, structural inspection, cost estimates, and development of construction and bid documents. Baker will also provide bid phase support, construction management, and construction inspection.

Kanawha-Putnam Bike/Pedestrian Plan, South Charleston. *Regional Intergovernmental Council.* Project Manager. Lead Planner responsible for the coordination of all activities. Baker performed a cursory inventory of existing bicycle and pedestrian facilities, identified areas with a high level of bicycle and pedestrian activity, collected existing resources and performed a broad base public outreach effort to identify bicycle and pedestrian issues in Kanawha and Putnam Counties for the Regional Intergovernmental Council (RIC). All data, survey results and preliminary findings were compiled for analysis and incorporation into the final plan during Phase II of the study.

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.

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.

Non-Baker Project Experience

Central West Virginia Regional Airport Authority, Various Projects, Charleston, West Virginia. *Yeager Airport.* Project Manager and Lead Designer. Provided Planning, Surveying, Design and Inspection Services on numerous projects from 1987 to present including: Complete services toward the development of 30 major planning and construction projects totaling \$32 million. Services included field surveying, master planning, pavement systems, storm drainage, lighting and NAVAIDs, sanitary sewerage, potable water, building design, obstruction removal, perimeter fencing and security systems design.

Bob Evans Farms, Inc, Columbus, Ohio. Project Manager. Provided complete services for an ALTA/ACSM Survey of the Bob Evans Restaurants in Huntington, West Virginia and Cannonsburg, Kentucky. Services included field surveying (boundary and topographic), courthouse research and assessment of the Title Commitment for the subject property.

Annexation Services, Poca, West Virginia. *Town of Poca.* Project Manager. Provided project management, planning, and surveying services for an annexation of approximately 33.3 acres of land into the existing corporation limits of the Town of Poca by minor boundary adjustment.

Wastewater Treatment Plant Construction Administration, Poca, West Virginia. *Town of Poca.* Project Manager. Provided supplemental design services, shop drawing review, and periodic inspection for the wastewater treatment plant and sanitary sewer line extension for the Town of Poca.

Presentations

Fogarty, Patrick W., "Current Trends in Aviation", 2005 West Virginia Aviation Conference, Charleston, West Virginia, August 2005.

Professional Affiliations

American Planning Association (APA)
American Society of Civil Engineers (ASCE)
American Water Works Association (AWWA)
Construction Specifications Institute (CSI)
International Right-of-Way Association (IRWA)
Kentucky Association of Professional Surveyors (KAPS)
Society of American Military Engineers (SAME)
West Virginia Airport Managers Association (WVAMA)
West Virginia Society of Professional Surveyors (WVSPS)

Jack L. Justice, P.E., P.S.
QA/QC Officer

General Qualifications

Mr. Justice has over 49 years of structural engineering experience. His bridge experience includes the review of numerous highway, railroad and pedestrian bridges in the states of Pennsylvania, Maryland, Delaware and West Virginia. These include steel rolled beam, straight and kinked bridges, straight and curved plate girder bridges, steel trusses and steel and concrete cable stayed bridges and also includes timber pedestrian bridges. He was also involved in cast-in-place and precast segmental bridges and prestressed and post tensioned designs. He administered the research program for approximately 14 years in the federal sector, as well as the bridge program.

Experience

Blennerhassett Island Bridge, Appalachian Corridor D, Wood County, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Responsible for the review of all bridge plans and contract related documents. Baker is the prime consultant on this contract that encompasses a bridge type study and final design. Baker will provide project management, long-span bridge and approach span bridge design, environmental permitting, 3D renderings, and public involvement services with a multitude of specialty subconsultants and one nationally prominent long-span bridge subconsultant. Baker's services also include continuous conventional/low mast lighting design for the 4,000-foot-long bridge and a river navigation lighting system for twin river channels.

Appalachian Corridor H, Section 6, Hardy County, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Responsible for the review of bridge plans and the development of special provisions. This project involved the study, design and final construction plan development for a new roadway beginning 0.6 miles southeast of Hardy County 220/8 and continuing eastward 6.6 miles to an interchange with WV 55. This project included an interchange with the Moorefield Bypass, a ramp connector road south of the corridor west from the possible future Moorefield Bypass to a proposed reconstruction of US 220, a closure study of the floodwall on the north end of Moorefield near this Section 6 proposed highway location, six bridges and completion of an interchange (two ramps) with WV 55 on the east end of the project.

US 35/I-64 Interchange, Putnam County, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Structural Engineer. Responsible for review of various structural details including thermal control plans. Michael Baker Jr., Inc. was selected by the West Virginia Department of Transportation, Division of Highways to review shop drawings and contractor calculations for the U.S. Route 35 Interchange. Baker was also selected as the prime bridge designer for this project. The interchange will include two new bridge structures consisting of a mainline crossing and a Ramp flyover bridges.

Years with Baker: 3
Years with Other Firms: 46

Education

B.S.C.E., 1960, Civil Engineering,
West Virginia University

Graduate Studies, 1970, Structures,
Penn State University

Licenses/Certifications

Professional Engineer, West
Virginia, 1963, 4385

Professional Surveyor, West
Virginia, 1995, 1444

Prior-Baker Project Experience

Weirton-Steubenville Bridge (all 3 alternates), Weirton, West Virginia & Steubenville, Ohio. *West Virginia Department of Transportation, Division of Highways.* Bridge Engineer. Responsible for the review of all bridge plans and contract-related documents.

Moundsville Steel Arch Bridge, Moundsville, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Bridge Engineer. Responsible for the review of all bridge plans and contract-related documents.

I-470 Steel Arch Bridge, West Virginia Department of Transportation, Division of Highways. Bridge Engineer. Responsible for the review of all bridge plans and contract-related documents.

Blennerhassett Island Bridge, Wood County, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Division Structures and Research Engineer. Steel arch bridge - Final design (including tied arch and suspension bridge studies) Responsible for the review of all bridge plans and contract-related documents.

Silver Memorial Bridge, West Virginia Department of Transportation, Division of Highways. Bridge Engineer. Responsible for the review of all bridge plans and contract-related documents.

Shadle Bridge, Point Pleasant, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Division Bridge Engineer. Responsible for the review of all bridge plans and contract-related documents.

Pomeroy-Mason Cable Stayed Bridge, West Virginia Department of Transportation, Division of Highways. Division Structures & Research Engineer. Responsible for the review of all bridge plans and contract-related documents.

East Huntington Cable Stayed Bridge, Huntington, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Division Bridge Engineer. Responsible for the review of all bridge plans and contract-related documents.

Sixth Street Bridge, West Virginia Department of Transportation, Division of Highways. Division Bridge Engineer. Responsible for the review of all bridge plans and contract-related documents

17th Street Bridge Rehabilitation, Cabell County, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Division Bridge Engineer. Responsible for the review of all bridge plans and contract-related documents. The structural work resulted in a major bridge rehabilitation over the Ohio River.

Chelyan Bridge (both alternates), Kanawha County, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Division Bridge Engineer. Responsible for the review of all bridge plans and contract-related documents.

Glade Creek Truss (steel and concrete alternate), West Virginia Department of Transportation, Division of Highways. Division Structures & Research Engineer. Responsible for the review of all bridge plans and contract-related documents.

Various Bridges Updating the West Virginia Turnpike, State of West Virginia. *West Virginia Department of Transportation, Division of Highways.* Division Structures & Research Engineer. Responsible for the review of all bridge plans and contract-related documents.

Various Bridges on Appalachian Corridor H, Various Counties, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Division Structures & Research Engineer. Responsible for the review of all bridge plans and contract-related documents.

Various Bridges on Appalachian Corridor D, Various Counties, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Division Structures & Research Engineer. Responsible for the review of all bridge plans and contract-related documents.

Various Bridges on Corridor L, West Virginia Department of Transportation, Division of Highways. Division Structures & Research Engineer. Responsible for the review of all bridge plans and contract-related documents.

Various Bridges on Interstate 64, Various Counties, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Division Structures & Research Engineer. Responsible for the review of all bridge plans and contract-related documents.

Cheat Lake Bridge, Monongalia County, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Division Bridge Engineer. Responsible for the review of all bridge plans and contract-related documents.

Various Bridges on Interstate 68, Northern West Virginia. *West Virginia Department of Transportation, Division of Highways.* Division Bridge Engineer. Responsible for the review of all bridge plans and contract-related documents.

Various Bridges on Mon-Fayette Expressway, Northern, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Division Structures & Research Engineer. Responsible for the review of all bridge plans and contract-related documents.

Various Bridges on US 35, Putnam County, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Division Structures & Research Engineer. Responsible for the review of all bridge plans and contract-related documents.

Lower Buffalo Bridge, Putnam County, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Division Structures & Research Engineer. Responsible for the review of all bridge plans and contract-related documents.

James Rumsey Bridge, Jefferson County, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Division Structures & Research Engineer. Responsible for the review of all bridge plans and contract-related documents. The project included the analysis and plan preparation for the deck replacement of the truss and maintenance of traffic.

Presentations

Justice, Jack L., The Use of the Axial Load Monitor to Determine Loads in Trusses and Cables, Charleston, West Virginia; Pittsburgh, Pennsylvania; Baltimore, Maryland; Richmond, Virginia; Wilmington, Delaware

Honors and Awards

Presidential Management Award, presented by Vice-President Bush for President Reagan
Many Outstanding Performance Ratings, Federal Highway Administration, Division Offices
Many Cost Avoidance Awards, Federal Highway Administration, Region 3

Teaching

Instructor, Short Course on the Use of Fiber Reinforced Polymers in Highway Construction, Morgantown, Charleston, Clarksburg, and Martinsburg, West Virginia

Boston, Massachusetts

Phoenix, Arizona

San Juan, Puerto Rico

Continuing Education/Training

National Highway Institute Courses - many over 36 years with the Federal Highway Administration

Seminars/Conferences

Various Courses and Seminars over the course of 47 years.

Previous Work History

Federal Highway Administration, WV Division, Division Structures & Research Engineer, 1976-2006

Federal Highway Administration, MD Division, Division Bridge Engineer, 1973-1976

Federal Highway Administration, PA Division, Assistant Division Bridge Engineer, 1970-1973

Huntington District Corps of Engineers, Civil Engineer, 1968-1970

State Road Commission of West Virginia, Bridge Engineer, 1960-1968

R. Todd Schoolcraft, PLA, ASLA

Landscape Architect/Designer

General Qualifications

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

Experience

Winfield Sidewalk Improvements, Winfield, West Virginia.

Town of Winfield. Project Manager. Responsible for detailed design, construction documents, bidding, and construction administration. Prepared detailed design and construction documents and provided bidding and construction management services for sidewalk improvements for the Town of Winfield, Putnam County, WV. Project consisted of approximately 1,400 lineal feet of city street improvements to include new porous concrete sidewalks, ADA accessible curb ramps with truncated domes, Abbey Road-style crosswalks, minor storm sewer improvements, park benches, and landscaping. New, environmentally friendly pervious or porous concrete was utilized for the concrete sidewalks, reducing the need for new storm sewer inlets and storm sewer pipe, thus allowing the Owner to control costs associated with storm drainage and dedicating more money toward sidewalk construction.

Historic John Henry Park Archaeological Phase I Investigation, Talcott, Summers County, West Virginia. *Summers County Commission.* Project Manager. Baker conducted Phase I Archaeological

Years with Baker: 3

Years with Other Firms: 16

Education

- B.S. Landscape Architecture, West Virginia University, 1991
- Safe Spaces: ASLA Security Design Symposium, Chicago, IL, 2004
- AQUA Conference Educational Sessions, Las Vegas, NV, 2005
- CERFP Team Training, WV Army National Guard, 2006

Registrations

- PLA, West Virginia, 1995
- RLA, North Carolina, 2008
- PLA, Ohio, 2002
- CLARB Certified, 2001

Professional Affiliations

- WV State Board of Landscape Architects
- American Society of Landscape Architects
- WV Chapter – American Society of Landscape Architects
- American Planning Association
- Associate Member – AIA West Virginia
- Society of Military Engineers
- National Guard Association
- WV Rails-to-Trails Society
- Elkland Pool Board

Resource Survey, including a secondary source review update, and identified and recorded cultural resources within the project area. A new park will be constructed in the area commemorating the legendary battle between man and machine, where fabled John Henry took on the steam engine drill while constructing the Great Bend Tunnel. The cultural resources investigation effort resulted in the delineation of historic structures that should be protected, and as such, has contributed significantly to the cultural and historic aspect of the future park improvements.

Historic Wellsburg and Bethany Scenic Byway Corridor Management Plan, Wellsburg, West Virginia. *Brooke County Commission and the Byway Committee.* Project Manager. Responsible for field inventory and analysis, community input facilitation, and document preparation. Baker prepared a Corridor Management Plan for the Historic Wellsburg and Bethany Scenic Byway in Brooke County in preparation for Federal recognition in the National Scenic Byway Program. The plan showcased the story of settlement and the development of industry along the Ohio River in the Northern Panhandle of West Virginia. The plan also developed recreational opportunities and improved safety along the circular 22-mile scenic corridor loop. The plan recently won a Merit Award with the American Society of Landscape Architects.

Pennsboro Trailhead, Old Stone House/Boarding House, and Historic B&O Train Depot Improvements, Pennsboro, West Virginia. *City of Pennsboro and the Ritchie County Historical Society.* Project Landscape Architect. Responsible for concept planning, detailed design, construction documents, bidding, construction administration and construction inspection. The Ritchie County Historical Society, in conjunction with the City of Pennsboro, retained Baker for the planning and detailed design of a new trailhead along the North Bend State Park Rail Trail. Site improvements include the first known use of pervious or porous asphalt in West Virginia as the pavement surface for the parking area. A rain garden/bioretention swale is also included as some of the green, sustainable design solutions developed by Baker. Construction administration and inspection services will be provided for the trailhead work, plus restoration of the Old Stone House and Boarding House, built in 1810. Now a museum, the Old Stone House/Boarding House once served as an inn for Americans heading for the frontier to rest their weary bones before continuing westward. Construction services will also include the continued restoration of the historic B&O Railroad Depot in Pennsboro, also currently serving as a museum.

Kanawha & Putnam County Bicycle – Pedestrian Master Plan, South Charleston, West Virginia. *Regional Intergovernmental Council (RIC).* Assistant Project Manager. Responsible for field inventory and analysis, and plan preparation and review. Baker performed a two-phase bicycle and pedestrian circulation study for Kanawha and Putnam Counties. Under Phase I, Baker performed a cursory inventory of existing bicycle and pedestrian facilities, identified areas with a high level of bicycle and pedestrian activity, collected existing resources including traffic volumes and comprehensive plan documents and performed a broad base public outreach effort to identify bicycle and pedestrian issues in Kanawha and Putnam Counties. Under the Phase I effort, Baker incorporated the inventories into a series of public meetings, garnering input from each community and the client, and then summarizing the findings in the Plan. Based on these efforts, a list of recommended improvements to the 2-county area was proposed to improve bicycle and pedestrian safety and user-friendliness throughout the project area.

Valley Park Sidewalk Improvements Project, Hurricane, West Virginia. *Putnam County Parks and Recreation Commission.* Project Manager. Responsible for design and document quality oversight. Baker performed complete planning, design, and construction management services for new sidewalks and streets improvements for access into Valley Park, Putnam County. 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 improvements. The park sidewalks will have a unique colored stamping of natural elements found in West Virginia, such as leaves and ferns, animal tracks, and flowers. Baker will provide Construction Administration and inspection services as well as periodic site review during construction.

City of Parsons Sidewalk Improvements Project, Parsons, West Virginia. *City of Parsons.* Project Manager. Responsible for design and document quality oversight. Baker performed complete planning, design, and construction management services for new sidewalks and storm sewer improvements for various locations in historic Parsons, Tucker County. The improvements included concrete sidewalks with adjacent 2-foot lawn panels, new curbing, driveway curb cuts, ADA accessible curb ramps with truncated domes, ladder-style crosswalks, storm water improvements, benches, trash receptacles, and landscaping. The final design made accommodations for original wrought-iron fencing at various locations, and a historic "carriage step" from the turn of the century. Baker is currently providing construction administration and periodic site review during construction.

WV Route 62 Phase II Streetscape Improvements, Mason, West Virginia. *City of Mason.* Project Landscape Architect. Responsible for detailed design and construction document preparation. Baker performed complete detailed design, construction document preparation and construction management services for new sidewalks and storm sewer improvements the Mason Phase II Streetscape Project. The improvements included concrete sidewalks with integral concrete curbs, driveway curb cuts, ADA accessible curb ramps with truncated domes, ladder-style crosswalks, storm sewer improvements, benches and trash receptacles. Baker will soon provide construction administration and inspection services.

Maple Avenue Streetscape, Moorefield, West Virginia. *City of Moorefield.* Project Landscape Architect. Responsible for detailed design and construction document preparation. Baker performed complete detailed design, construction document preparation and construction management services for new sidewalks and storm sewer improvements for the Maple Avenue Streetscape Project, Moorefield, WV. The improvements included concrete sidewalks with integral concrete curbs, driveway curb cuts, ADA curb ramps with truncated domes, crosswalks, storm sewer improvements, and landscaping.

Non-Baker Project Experience

Main Street Streetscape Master Plan, Clay, West Virginia. *Central Appalachia Empowerment Zone (CAEZ).* Project Manager. Responsible for field inventory and analysis, conceptual design, master planning and cost estimate preparation. Developed conceptual design and master plans for the redevelopment of Main Street Clay, in Clay County, West Virginia. Proposed amenities included new concrete sidewalks with brick accents, brick crosswalks, concrete curbing, period street lights, wrought-iron benches and trash receptacles, overhead utility relocations, storm sewer improvements, and landscaping. Also prepared cost opinions in unit cost format for use in funding applications. Assisted Town of Clay in preparation of Transportation Enhancement Grant application based on master plan.

Sophia Main Street Improvements, Sophia, West Virginia. *Town of Sophia.* Project Manager. Responsible for conceptual design, detailed design, construction documents, bidding, and construction administration. Prepared concept designs for public input meetings, then further developed detailed design and construction documents, and provided bidding and construction management services for sidewalk improvements and streetscape enhancements for the Town of Sophia, Raleigh County, WV. Project consisted of four blocks of city street improvements to include concrete sidewalk replacement, period light fixtures, concrete curbing, driveway curb cuts, ADA accessible curb ramps with truncated domes, ladder-style crosswalks, storm sewer improvements, benches, trash receptacles and landscaping. Some of the bolting patterns to the newly installed street lights were modified at the factory to accommodate existing pole bases, allowing the Owner to keep costs down by reusing the concrete bases, conduits, conductors, and power source from an earlier street lighting project.

Summers and Christopher Streets Streetscape Concept Master Plan, Charleston, West Virginia. *Charleston Urban Renewal Authority (CURA).* Project Manager. Responsible for field inventory and analysis, conceptual design and cost estimate preparation. Developed design and concept plans for the development of new streetscape improvements for three blocks of Summers Street and one block of Christopher Street in Charleston's Downtown Village District. Amenities included new concrete sidewalks with brick appointments, brick crosswalks, granite curbing, period light fixtures, wrought-iron benches and trash

receptacles, overhead utility relocations, storm sewer improvements, and landscaping. Also prepared cost opinions in unit cost format for use in funding applications.

Star City Phase II Streetscape and Trailhead Improvements, Star City, West Virginia. *Town of Star City.* Project Manager. Responsible for conceptual design, detailed design, construction documents, bidding, and construction administration. Developed schematic concepts, complete detailed design and construction documents, and provided bidding and construction management services for a phase II streetscape and trailhead improvements project for Star City, Monongalia County, WV. Project consisted of five blocks of streetscapes along the scenic riverfront of the Monongahela River, tying into the Caperton Trail, a destination rail-trail in northern West Virginia. Amenities included concrete sidewalks with brick accents, architectural brick gravity retaining wall with lighting niches, "gas light" period light fixtures, concrete curb and gutter, driveway curb cuts, ADA accessible curb ramps with truncated dome specialty pavers, crosswalks, storm sewer improvements, benches, trash receptacles and landscaping.

Hale Street Morrison Building Streetscape Repair, Charleston, West Virginia. *R. Brawley Tracy, Esq., Owner.* Project Landscape Architect. Responsible for field inventory and analysis, conceptual design and cost estimate preparation. Developed design and concept plans for the repair of an existing streetscape along the Morrison Building of Hale Street in Charleston's Downtown Village District. Amenities included new stamped colored concrete sidewalks, granite curbing, period light fixtures, and wrought-iron trash receptacles. The stamped colored concrete was specified to match the existing red bricks found in the sidewalks throughout Charleston, while also providing a watertight solution for a leaky basement that protruded two feet under the existing sidewalks.

Hinton Islands City Park Master Plan, Hinton, West Virginia. *City of Hinton.* Project Manager. Responsible for conceptual design and master plan preparation. Prepared a Master Plan for the development of Belle Point, City Island, and Cantrell Island at the confluence of the Greenbrier and New Rivers, Summers County, West Virginia. A major asset for the City of Hinton was the New River which is joined by the Greenbrier River just below the Bluestone Dam at Belle Point. The City of Hinton and private land owner Richie Cantrell, in an effort to strengthen and improve the quality of life for residents and visitors, initiated a master planning effort for Belle Point and the islands just downstream on the New River. The final master plan made recommendations for access improvements, handicap fishing piers, parking areas, restroom facilities, vehicular bridges, naturalized areas, nature trails, boat launch facilities, picnic shelters, children's play structures, fishing excursion/rafting launch point, RV campgrounds, campground check-in, caretaker's residence, bathhouse, lodge/retreat center, rustic cabins, barrier islands preservation and stabilization, and historic log cabin restoration.

Offices Held

- Current Secretary, WV State Board of Landscape Architects
- Past Treasurer, WV State Board of Landscape Architects
- Past President, WV Chapter American Society of Landscape Architects
- Past Treasurer, WV Chapter American Society of Landscape Architects
- Past Secretary, WV Chapter American Society of Landscape Architects

Honors and Awards

- WV Chapter – ASLA; 2009 Merit Award – Historic Wellsburg / Bethany Scenic Byway
- WV Chapter – ASLA; 2008 Merit Award – Kanawha/Putnam County Bicycle – Pedestrian Plan
- WV Chapter – ASLA; 2005 Merit Award – Russell Residence House and Site Improvements
- United States Army; 2003 Bronze Star – Operation Iraqi Freedom
- ASLA; 1999 Medallion Award – Charleston Village District Streetscapes
- WV Chapter – ASLA; 1999 Merit Award – Tamarack: The Best of West Virginia
- WV Chapter – ASLA; 1995 Honor Award – NorthGate Business Park

Tracy Rapp, P.E.

Electrical Engineer

General Qualifications

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: 2

Years with Other Firms: 25

Education

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

Registrations

Professional Engineer

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

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.

David Hilliard, E.I., LEED GA

Senior Designer

General Qualifications

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

Over the years, while practicing his profession, Mr. Hilliard continued his education. He attended night school and began working on a civil engineering degree, which later changed to mathematics then finally to mechanical engineering. While attending college, he used his HVAC work experience to evaluate mechanical problems and make design recommendations on numerous public and commercial buildings.

Experience

A/E Services for the Charleston Armory Improvements, West Virginia Army National Guard, Division of Engineering and Facilities, Charleston, West Virginia. *State of West Virginia, Division of Engineering and Facilities.* Project Engineer. Responsible for detailed design, QA/QC, construction administration and inspection. The Facilities Management Officer (FMO) for the State of West Virginia, Division of Engineering and Facilities (DEF), West Virginia Army National Guard (WVARNG) selected Baker for architectural and engineering services. The State Army National Guard Headquarters in Charleston, West Virginia was originally constructed in the early 1960's. Over the years, there have been numerous upgrades to the facility. Baker was selected by the Division of Engineering and Facilities to provide complete design and construction administration services for architectural improvements of the first floor of the Office of the Adjutant General (TAG), and further provide MEP and HVAC design improvements for the entire TAG Wing, Headquarters Building, and Armory/Drill Floor. The Owner desired the modernization of approximately 55,000 square feet of existing outdated heating, ventilation, and air conditioning equipment. Total 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, asbestos removal, and a new 4-pipe environmental control system. Baker worked closely with the client during the planning phase to define a project scope to upgrade the existing facility consistent with previous renovations and within a limited budget.

A/E Services for the Capitol Campus Master Plan, State of West Virginia, Charleston, West Virginia. *State of West Virginia, General Services Division.* Project Engineer. Mr. Hilliard is currently providing MEP services for a comprehensive campus-wide master plan for the 55+ acre state capitol campus. Working in conjunction with a team of specialized consultants, David is currently providing programming, cost estimating and facilities planning support. This includes HVAC Loads, private and public utility evaluation and planning, emergency generator systems, as well as developing proposals for a connecting tunnel system.

Years with Baker: 1

Years with Other Firms: 19

Education

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

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

Professional Affiliations

ASME

ASHRAE

SMACNA

A/E Services for the Harrison County Extension Service and Parks and Recreation Commission, Clarksburg, West Virginia. *Harrison County Commission, Clarksburg, West Virginia.* Mechanical Engineer. Mr. Hilliard is responsible for the Mechanical, Electrical and Plumbing Design, MEP Document Preparation, and Construction Administration for the renovation of an existing facility for use as county Extension Administrative Offices and as a Parks and Recreation Storage Facility. The Harrison County Commission selected Baker to provide complete design and construction administration services to upgrade the building and increase energy efficiency. With funding through an ARRA Stimulus Grant, the Owner desires the modernization of approximately 6,000 square feet of the existing building with appropriate "Green Building" materials. Replacements of outdated heating, ventilation and air conditioning equipment, as well as the existing electrical service with energy efficient products are at the core of the design. Some of the elements to be included in the design are energy-saving light fixtures, duplex outlets, communications jacks, alterations to the existing floor plan, updated water saving toilet facilities and a high efficiency HVAC system. Baker is currently working closely with the client during the planning phase to define a project scope to upgrade the existing facility into an energy efficient facility and within their budget.

A/E Services for the Little Kanawha Bus Terminal, Grantsville, West Virginia. *State of West Virginia, Department of Administration, Charleston, West Virginia.* Mechanical Engineer. Mr. Hilliard is 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. His 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.

West Virginia State Capitol Building 1 Restrooms Restoration and Renovations, State of West Virginia, Charleston, WV. *State of West Virginia, General Services Division.* Mechanical Engineer. Mr. Hilliard is currently providing the State of West Virginia General Services Division a comprehensive plumbing plan for the renovation and restoration of over 33 restrooms at the Main Capitol Building, a historic Cass Gilbert design.

Non-Baker Project Experience

CAMC Memorial, Kanawha City, West Virginia

Performed design calculations, layout of Plumbing, HVAC ductwork, piping and components for three floors of the Clinical Teaching Center; Lobby, Cath Labs and patient rooms. This work was all done in affiliation with BSA Life Structures.

Raleigh General Hospital Surgery Suite; Beckley West Virginia

Worked on value engineered and shop drawing for a 20,000 square foot surgery addition, as well as managed and coordinated construction of this complex mechanical design.

Ashland Community and Technical College; Ashland, KY

Mr. Hilliard worked on Design Evaluation and Coordination of the Medium Pressure VAV Mechanical System. He prepared shop drawings and coordination drawings. His duties also included Construction Administration.

West Virginia Army National Guard support Maintenance Shop; Eleanor WV

Mr. Hilliard worked on Design Evaluation and Coordination of construction of the HVAC system; including infrared heat, gas unit heaters, auto fume exhaust and make-up air.

Mountain State University School of Business and Applied Technologies; Beckley WV

Mr. Hilliard worked on Design Evaluation and Coordination of the Mechanical System. He prepared shop drawings and coordinated construction.

Southern West Virginia Community and Technical College; Mount Gay WV

Mr. Hilliard was charged to Value Engineer and Coordinated Construction of this three story building. He prepared VE shop drawings which were instrumental in returning money to the owner.

Air National Guard Maintenance Facility; Ashland KY

Mr. Hilliard worked on coordination drawings and managed construction of the HVAC system; including infrared heat, gas unit heaters, auto fume exhaust and make-up air.

City of Charleston Fire Department -2; Virginia Street West, Charleston WV

Mr. Hilliard prepared shop and construction drawings for the HVAC system including gas unit heaters, Carmon retractable auto fume exhaust and make-up air facilities.

Jackson County High School, Jackson, OH

Mr. Hilliard worked on Design Evaluation and Coordination of the Medium Pressure VAV Mechanical System. He prepared shop drawings and coordination drawings. His duties also included Construction Administration.

Huntington High School, Huntington, WV

Mr. Hilliard worked on Design Evaluation and Coordination of the Heat Pump Mechanical System. He prepared shop drawings and coordination drawings. His duties also included Construction Administration.

Other miscellaneous projects

Waverly City Schools, Waverly, OH (Three schools were built in the same complex. Elementary, Middle and High School).

Kings Daughters Medical Center Parkview addition, Ashland, KY

Emergency Response Center (911) Huntington, WV

Army National Guard Construction & Facilities Management Office, Charleston, WV

Mountaineer Challenge Academy, Camp Dawson Kingwood, WV

PREVIOUS WORK HISTORY

Air Systems Sheet Metal Company; Contractors & Engineers, 1990 - 2009, Drafter / Designer / Construction Manager / Estimator. Air Systems is currently the largest sheet metal contractor in West Virginia. They engineer, fabricate and install both commercial HVAC and industrial ventilation systems in the tri-state area.

During his tenure at Air Systems, he managed and directed the drafting and design department preparing shop, design and value engineered drawings. He also worked as a project coordinator for HVAC ductwork, piping, plumbing and sprinkler. Estimating jobs (QuickPen software), construction management, submittal review, procurement of supplies and air balancing were also part of his working experience at Air Systems.

CS Lewis Contracting Co., 1985 - 1990, Partner, Designer/Builder. As a business partner he designed and built homes and light commercial building from the ground up; including plumbing, electrical, HVAC. He also supervised the installation of underground utilities and concrete roads for various subdivisions; running a six to twelve men crew.

Xenia Construction Co., 1979 - 1984, *Commercial Carpenter/Mason.* Worked as a carpenter and concrete mason building midsized commercial buildings and half million dollar homes.

Brown & Root Construction Co., 1975 - 1978, *Structural Fitter.* In Houston Texas, Mr. Hilliard worker high steel in an Arco Petroleum Refinery as a pipe hanger fitter. The work included; layout, fabrication and installation of steel supports and hangers for pipe ranging from 1.5" to 102" in diameter.

Sinclair Construction Co., 1972 - 1975, *Residential Carpenter.* Carpenter and mason's helper on a wide range of new home construction.

Larry C. Nottingham, PhD, PE



Mr. Nottingham served as a Principal Engineer at Triad Engineering, Inc. for over 25 years before joining the professional staff at NGE. During that time he has accumulated a broad range of experience in the numerous disciplines of geotechnical engineering. Mr. Nottingham also served as a professor and department chair of the Civil Engineering Department at the West Virginia University Institute of Technology in Montgomery, West Virginia. Mr. Nottingham was involved with consultation and review of many subsidence related projects performed for BRIM as well as the WVDEP.

Fields of Competence

- Foundation Investigations
- Landslide Analysis & Remedial Design
- Mine Subsidence Investigations
- Highway & Airport Geotechnical Design
- Pavement Analysis & Design
- Retaining Wall Design
- Forensic & Insurance Investigations
- Expert Witness Consultation
- Ground Water and Seepage Analysis & Design
- Dam Analysis & Design
- Personnel Management
- Project Management
- Project Estimating

Education

- B.S.C.E., Civil Engineering, West Virginia Institute of Technology, 1965
- M.S.C.E., Civil Engineering, University of Pittsburgh, 1966
- Ph.D., Civil Engineering, University of Florida, 1975

Registration/Certifications

Registered Professional Engineer in West Virginia, Kentucky, and Ohio

Employment History

- May 2005 - Present
Senior Engineer, Novel Geo-Environmental, PLLC
- 1979 - May, 2005
Principal Engineer, Triad Engineering, Inc.
- 1989 - 1994
Professor and Department of Civil Engineering Chair, West Virginia Institute of Technology
- 1975 - 1979
Senior Engineer, Fugro Gulf, Inc., Houston, Texas
- 1970 - 1974
Project Engineer, Florida Department of Transportation
- 1967 - 1970
Project Engineer - Ackenheil & Associates, Inc.

Additional References

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

- West Virginia Department of Transportation – Division of Highways
1900 Kanawha Boulevard East,
Building 5, Room A-109
Charleston, WV 25305
Mr. Darrell Allen, P.E., Deputy State Highway Engineer
(304) 558-3304
- City of Charleston
915 Quarrier Street, Suite 5
Charleston, WV 25301-2607
Mr. Chris Knox, City Engineer
(304) 348-8106
- Putnam County Parks and Recreation Commission
#1 Valley Park Drive
Hurricane, WV 25526
Mr. Scott Williamson, Director
(304) 562-0518, Ex. 5
- Harrison County Historic Landmarks Commission
301 West Main Street
Clarksburg, WV 26301
Ms. Terry Schulte, Planner
(304) 624-8690
- Tucker County Commission
213 First Street
Parsons, WV 26287
Mr. Mike Rosenau, Commissioner
(304) 478-2866

RFQ No. **GSD116434**

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE

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

Authorized Signature: [Signature] Date: March 1, 2011

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 1st day of March, 2011

My Commission expires April 14, 2013

AFFIX SEAL HERE

NOTARY PUBLIC [Signature]

