

12/20/17 12:24:09  
WV Purchasing Division



Huntington  
Sutton  
Charleston

GSD1800000001

# CAPITOL COMPLEX HARDSCAPE RESTORATION

Submitted to:  
Department of Administration  
General Services Division  
1900 Kanawha Boulevard,  
East Building One, Room MB-28  
Charleston, WV 25305

Submitted by:  
Michael Baker International, Inc.  
400 Washington Street, East, Suite 300  
Charleston, WV 25301

**Michael Baker**  
INTERNATIONAL

Ms. Jessica Chambers  
Department of Administration, Purchasing Division  
2019 Washington Street East  
Charleston, WV 25305-0130

December 20, 2017

Subject: CEOI GSD1800000001 – Capitol Complex Hardscape Restoration Project  
Expression of Interest

Dear Ms. Chambers:

The Charleston office of Michael Baker International, Inc. (Michael Baker) is pleased to respond to the subject Expression of Interest for the Capitol complex Hardscapes Restoration Project. We understand that this solicitation covers evaluation of the existing Capitol Complex grounds in Charleston, WV.

Michael Baker is well positioned to assemble a comprehensive design team (in-house) including: Planning, Landscape Architectural, Civil/Site, Architectural, and Public Outreach expertise. Our diverse team of professionals are well versed in site analysis, conducting usage studies and the preparation of construction documents. Michael Baker is also very familiar with the Capitol Campus, having authored the 2013 Capitol Campus Masterplan.

We thank you for your consideration and look forward to meeting with the selection committee in person in order to share our thoughts and ideas for this exciting opportunity!

Should you have any questions or require additional information, please feel free to contact me at (304) 769-0821 or by e-mail at PFogarty@mbakerintl.com.

Very truly yours,

MICHAEL BAKER JR., INC.



Patrick W. Fogarty, P. E., P.S.  
Civil Services Group Manager

STATE OF WEST VIRGINIA  
Purchasing Division

# PURCHASING AFFIDAVIT

**CONSTRUCTION CONTRACTS:** Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

**ALL OTHER CONTRACTS:** Under W. Va. Code §5A-3-10a, 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: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

**EXCEPTION:** The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. 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.

**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.

**"Employer default"** means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

**"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.

**AFFIRMATION:** By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

**WITNESS THE FOLLOWING SIGNATURE:**

Vendor's Name: Michael Baker International, Inc.

Authorized Signature: [Signature] Date: December 20, 2017

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 26 day of December, 2017.

My Commission expires March 03, 2022.

**AFFIX SEAL HERE**



OFFICIAL SEAL  
NOTARY PUBLIC  
STATE OF WEST VIRGINIA  
Morgan E. Mobley  
60 Regina Drive  
Charleston, WV 25311

My Commission Expires March 03, 2022

**NOTARY PUBLIC**

[Signature]  
Purchasing Affidavit (Revised 07/07/2017)



Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

State of West Virginia  
 Centralized Expression of Interest  
 02 - Architect/Engr

Proc Folder: 397212

Doc Description: EOI: Capitol Complex Hardscape Restoration Project

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2017-11-21	2017-12-20 13:30:00	CEOI 0211 GSD1800000001	1

**BID RECEIVING LOCATION**

BID CLERK  
 DEPARTMENT OF ADMINISTRATION  
 PURCHASING DIVISION  
 2019 WASHINGTON ST E  
 CHARLESTON WV 25305  
 US

**VENDOR**

Vendor Name, Address and Telephone Number:

Michael Baker International, Inc.  
 400 Washington Street, East  
 Suite 301  
 Charleston, WV 25301  
 304-769-0821

**FOR INFORMATION CONTACT THE BUYER**

Jessica S Chambers  
 (304) 558-0246  
 jessica.s.chambers@wv.gov

Signature X

FEIN # 25-1228638

DATE 12/20/2017

All offers subject to all terms and conditions contained in this solicitation

**ADDITIONAL INFORMATION:**

The Acquisition and Contract Administration Section of the Purchasing Division is soliciting Expression(s) of Interest for The General Services Division from qualified firms to provide architectural/engineering services per the specifications and terms and conditions as attached.

\* Please Note: Online submissions of Expressions of Interest are Prohibited.

INVOICE TO	SHIP TO
DEPARTMENT OF ADMINISTRATION GENERAL SERVICES DIVISION 1900 KANAWHA BLVD E, BLDG 1, RM MB-68 CHARLESTON WV25305 US	DEPARTMENT OF ADMINISTRATION GENERAL SERVICES 1900 KANAWHA BLVD E, BLDG 1 RM MB60 CHARLESTON WV 25305-0123 US

Line	Comm Ln Desc	Qty	Unit Issue
1	A/E Services for Capitol Complex Hardscape Restoration Proje		

Comm Code	Manufacturer	Specification	Model #
81101508			

**Extended Description :**

A/E Services for Capitol Complex Hardscape Restoration Project

GSD180000001	<b>Document Phase</b> Draft	<b>Document Description</b> EOI: Capitol Complex Hardscape Restoration Project	<b>Page 3</b> of 3
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**ADDITIONAL TERMS AND CONDITIONS**

See attached document(s) for additional Terms and Conditions

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## PROJECT LOCATION

The Agency location is at 1900 Kanawha Boulevard, East and the Project will be completed at the State of West Virginia, Capitol Complex which is bounded by Piedmont Avenue, California Avenue, Greenbrier Street and Kanawha Boulevard. Along with the following additional areas: Buildings 4, 15, 16, 17, 18 along Washington Street East and Laidley Parking Area.



## PROJECT BACKGROUND

West Virginia Department of Administration is seeking a highly qualified architectural/engineering firm to provide evaluation and design services for the renovation of the hardscape system at the West Virginia State Capitol Complex. The firm chosen will be responsible for systematically addressing existing exterior visitor walking surface conditions. Specific attention will be paid to the historic intent of the original architect of the Capitol and pertinent aspects of the 2013 Campus Master Plan.

“From the humble beginnings in roadway development to the design of the New River Gorge Bridge and beyond, Michael Baker International wishes to continue its relationship with the State of West Virginia.”

**Michael Baker International, Inc. (Michael Baker)** is a highly qualified firm with extensive experience in providing the type of services required for these projects, and we are extremely interested in continuing our relationship with the West Virginia Department of Administration.



## QUALIFICATIONS & EXPERIENCE

### FIRM/TEAM QUALIFICATIONS

Michael Baker's proposed team of experienced professionals has demonstrated the ability to deliver quality work products to our clients, on-time and within budget. Michael Baker can provide the entire depth of services necessary to complete the project without the need for costly sub-consultants. Each individual on this project team has extensive experience in their field of expertise and have demonstrated success on projects of similar size and scope.

The Principal-In-Charge will ensure that all required resources including staff and equipment are available to the project manager to execute the project successfully. Team resumes and project profiles provide a brief discussion of team member's experience base relevant to this project.

### Management and Staffing

Michael Baker International, Inc.  
Russell Hall, Vice President | 400 Washington Street East, Suite 301, Charleston WV 25301  
304-769-0821 | [RHall@mbakerintl.com](mailto:RHall@mbakerintl.com)

### Persons Assigned to Project

*(Resumes Provided In Appendix 1)*

NAME	ROLE
PATRICK FOGARTY, P.E., PS	Structural Engineer / Group Manager
NICOLE RILEY	Task Lead/ Architectural Designer
STEVEN SAVICH, P.E.	Civil Engineer/ Land Development
WILLIAM NEIDER, P.E.	Civil Engineer/ Project Manager
RALPH GROMLEY, P.S.	Professional Surveyor
DAVID HILLIARD, P.E., LEED AP BD+C	Mechanical Engineer

According to our understanding of the project scope as stated in the EOI, no additional sub-consultants will be required. Michael Baker will execute the entire project with our current staff.

### Firm Capacity

Michael Baker is a full service A/E firm. Our local office in Charleston WV is a "single-stop resource" capable of providing comprehensive professional services, from Planning, Landscape Architectural, Civil/Site, and Architectural expertise. Michael Baker will provide the hands-on services needed for this project, from Client meetings to site analysis, and construction document preparation. With over 30 in house professionals locally, Michael Baker can react quickly and efficiently to the needs of your project.

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

Nationally Michael Baker, is a leading global provider of engineering and consulting services which includes planning, architectural, environmental, construction, program management, and full life cycle support services as well as information technology and communications services and solutions. Michael Baker provides its comprehensive range of services and solutions in support of U.S. federal, state, and municipal governments, foreign allied governments, and a wide range of commercial clients. With more than \$1.3 billion in annual revenue, Michael Baker has more 3,500 employees

in over 90 offices located across the U.S. and internationally. Michael Baker seamlessly integrates architecture, planning, landscape architecture, engineering and management. Internationally recognized with a portfolio spanning over half a century, the team provides excellence in solutions: superior technical ability, creative design and collaborative integration.

The success of our multidisciplinary approach to built environments results from the expertise of our design professionals. We solve challenges from multiple vantage points providing unsurpassed holistic, sustainable and innovative solutions that benefit our diverse clients, including institutions, governmental agencies, corporations, developers and builders.

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

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

- Nationally recognized expertise in Planning and Landscape Architecture
- Innovative historically significant Architectural concepts and designs

## Project Organization

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### **STATEMENT OF 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**

Michael Baker will provide to the WV General Services Department or other appropriate agencies, electronic copies of all required submittals through the various design stages and will provide final AutoCAD drawings at the completion of the project if requested.



### **STATEMENT OR EVIDENCE OF THE FIRM OR TEAM'S ABILITY TO PROVIDE SERVICES**

This team was selected based on the current Project understanding. Additional team support members will be engaged on an as need basis

See Resumes for more details on team members in **Appendix 1**.

### **DEMONSTRATED EXPERIENCE IN COMPLETING PROJECTS OF A SIMILAR SIZE AND SCOPE**

Project Profiles are included in **Appendix 2**. They were selected as a representative group of various kinds of related projects. These include local projects in the State of West Virginia, and other relevant projects around the country.

Five (5) References are provided in **Appendix 3**.

## PROJECT & GOALS

### METHODOLOGY FOR MEETING GOALS AND OBJECTIVES - GENERAL

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#### **GOAL/OBJECTIVE 1: Evaluation**

It is Michael Baker International's understanding that the first task in this project involves a thorough evaluation of all foot traffic patterns on the Capitol Complex, along with the historic narrative for each. The hardscape survey around the Capitol building itself is to be limited within the limits of the Capitol (East Wing, West Wing, East and West Entries to main building) Complex. Recommendations for retaining, repairing or replacing specific areas will be included in a comprehensive report.

#### **GOAL/OBJECTIVE 2: Presentation of Findings**

Michael Baker International will present the findings of the report to the General Services Division in order to help the Owner prioritize the individual areas. Michael Baker will further assist the Owner in recommendations that follow Local, State and Federal guidelines, as applicable. These recommendations will then be translated into solution that are ready for the Design and Bidding Documents Phases.

#### **GOAL/OBJECTIVE 3: DESIGN/BIDDING DOCUMENTS**

Should the owner decide to proceed to implement the hardscape solutions as determined in goal 2, Michael Baker International will, as a change order to this contract design and produce contracting documents sufficient to process through the WV Purchasing Division's current rules and regulations a bid package for such an effort. Breakdown of design/construction drawings to be scalable based on objectives and budget.

**APPENDIX 1**  
**RESUMES**

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## 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 International 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 28 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 30 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 and infrastructure needs.

#### **Experience**

**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.

**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.

**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.

**Years with Michael Baker:** 11

**Years with Other Firms:** 18

#### **Degrees**

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

#### **Licenses/Certifications**

Professional Engineer - Civil/Structural, West Virginia, 1990

Professional Surveyor, West Virginia, 1996

**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.

**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.

**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. 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.

**Patrick W. Fogarty, P.E., P.S., LEED®GA**  
**Civil Services Group Manager****General Qualifications**

Mr. Fogarty is an asset to the Baker team with over 29 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, 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.

**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 prepared 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 showcases 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, includes a premier soccer field, additional soccer fields to create a soccer complex, access road and parking, fitness trail, restroom facility, concessions, and maintenance building.

**City-Wide Comprehensive Parks and Recreation Master Plan, Parsons,**

**West Virginia.** *Parsons Park Board, Inc.* Project Engineer. Responsible for 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.

**Years with Baker: 11****Years with Other Firms: 19****Education**

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

Diploma, 1993, Surveying and Mapping, International Correspondence Schools

**Licenses/Certifications**Professional Engineer, WV, 1990  
Professional Engineer, OH, 1996  
Professional Engineer, KY, 2000  
Professional Engineer, VA, 2002  
Professional Engineer, PA, 2003  
Professional Engineer, NC, 2008Professional Surveyor, WV, 1993  
Professional Surveyor, OH, 1996  
Professional Surveyor, KY, 2001

Construction Documents Technologist, CSI, 1996

Asphalt Technician, WVDOH, 1991  
Concrete Technician, WVDOH, 1991  
Soils Compaction, WVDOH, 1991  
Aggregate Sampling, WVDOH, 1991

LEED® Green Associate, 2012



**Maple Avenue Streetscape, Moorefield, West Virginia.** *Town of Moorefield.* Project Manager 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.

**Storm Sewer Planning and Facilities, Hambleton, West Virginia.** *Town of Hambleton.* Project Manager responsible for the coordination of all activities. Baker was retained by the Town of Hambleton to prepare a storm water management plan and subsequent bid documents, and construction documents and specifications for the implementation of the plan. The storm water 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.* Project Manager 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.

**US 33 Streetscape Improvement Project - Phase II, Mason, West Virginia.** *Town of Mason.* Project Manager 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 and Recreation Commission.* Project Engineer. 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 developed 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 for 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.

**Conversion of Railroad Trestle to Hiking and Biking Trail, Parsons, West Virginia.** *City of Parsons.* Project Manager. Responsible for the coordination of all activities. Baker provided 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 included base mapping, structural inspection, cost estimates, and development of construction and bid documents. Baker also provided bid phase support, construction management, and construction inspection.

**Kanawha-Putnam Bike/Pedestrian Plan.** *Regional Intergovernmental Council, South Charleston, West Virginia.* Project Planner. 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 Engineer. 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.

## Nicole Riley

### *Associate Architect / Project Manager*

#### **General Qualifications**

Ms. Riley brings more than 18 years of experience to the project. While at Michael Baker, Ms. Riley has focused her time on the client's needs while leading the design team from the early assessment of project planning stages to the construction administration. Ms. Riley's project design experience includes project for entrepreneurs, correctional, educational, institutional, military installations, commercial, residential, and religious facilities. She is experienced with the submittal and construction process for various state agencies including the WV State Fire Marshal.

**Years with Baker:** 2

**Years with Other Firms:** 16

#### **Education**

Bachelor of Architecture, Virginia Tech

#### **Licenses/Certifications**

Associate AIA

#### **Experience**

**Renovations to Classroom Building, Beckley, West Virginia.** *WVU Tech/ West Virginia University. Designer and Project Manager.* Responsibilities included facilitating complete design package and collaboration with WVU Tech staff for the 31,000 S.F. facility. This fast track design and construction project stemmed from a feasibility study produced by request of the Client. The deficiencies found during the Study were remedied during the design phase with a compressed time frame in mind. Coordination of new and old HVAC designs were a large component of this project. University branding elements were incorporated into the interior design to bring new life to a defunct campus. Special consideration was given to coordination with the University's existing door hardware products as well as the design and product specifications for a nationally accredited psychological laboratory within the Project. This project is currently under construction.

**Renovations to the Benedum Center, Beckley, West Virginia.** *WVU Tech/ West Virginia University. Designer and Project Manager.* A sister project to the above referenced Classroom Building, this 21,000 S.F. project ran concurrent and also stemmed from a Feasibility Study requested by the Owner. Primarily an interior design heavy project, this building required new retrofitted ADA toilet facilities as well as door hardware and HVAC systems coordination. This project is currently under construction.

**Design of Three PEMB T-Hangars, Morgantown Municipal Airport (MGW), Morgantown, West Virginia.** *Morgantown Municipal Airport. Architectural Designer.* Provided code compliant architectural design for a series of 3 pre-engineered T-hangars. Michael Baker provided design and engineering services for three pre-engineered metal building (PEMB) T-hangars west of the West Virginia Army National Guard Readiness Center known as the East Side Development in conjunction with the City of Morgantown, Michael Baker aided in facilitating the bidding phase and construction administration, overseeing work performed by multiple teams supplied by the National Guard. Phase 1 of the project encompassed development of infrastructure, including site grading, drainage, bituminous taxilanes, pavement markings, vehicle parking, and fencing for the three t-hangars. Phase 2 encompassed the t-hangars on the east side of the airfield and included site civil, structural, architectural, interior, mechanical, plumbing, fire protection, and electrical utilities design.

**Renovations to Maclin Hall, Montgomery, West Virginia.\*** *WVU Tech. Designer and Project Manager.* Responsibilities included facilitating complete renovation design package as programmed by the Owner and

collaboration with WVU Tech staff for the four level, mixed use facility. Special consideration given to durable interior design finishes selection, new technology infrastructure and concealment, student safety, West Virginia State Fire Code and ADA.

**Multi- Purpose Facility for the West Virginia State Police Academy, Institute, West Virginia.\*** *Designer and Project Manager.* Responsibilities included site investigation, cost estimate, architectural design and collaboration with geotechnical engineer as well as the West Virginia State Police staff overseeing the project. The facility employs a skylight system in the main gym, intended to provide natural light to the user as well as lowering electricity expense. Special consideration was given to the underground foundation and location of the facility at the Academy.

**Economic Development Center, Charleston, West Virginia.\*** *West Virginia State University Gus R. Douglass Extension, Designer and Project Manager.* Responsibilities included: feasibility study, budget development and construction documents and construction administration services for total renovation of a 5,000 S.F. facility. Diverse use of facility lent to consideration for recording studios, digital green studio, office space for entrepreneurs, and public gathering space.

**Glen Jean Armed Forces Reserve Center/ Military Entrance Processing Station, Glen Jean, West Virginia.\*** *West Virginia Army National Guard/ U.S. Department of Defense. Designer and Project Manager.* Responsibilities included complete design package and collaboration with staffs from both the state and federal entities for the 110,000 S.F. facility. Special consideration given to force protection, geotechnical challenges, helipad design and location, vehicle repair and petroleum storage, adequate mustering space, as well as medical office spaces.

**Parkersburg South High School, Parkersburg, West Virginia.\*** *Wood County Schools. Designer and Project Manager.* Responsibilities included complete design package and collaboration with staffs from both the state and federal entities for the 250,000 S.F. facility. Special consideration given to student security, geotechnical challenges, campus enclosure, music and chorale practice suites, laboratory spaces, fire suppression, and ADA.

Other Notable Projects:

- **St. Alban's High School\***; focus on selective demolition and design detailing for the 172,596 S.F. facility.
- **Robert C. Byrd Training Institute\***; design/ production team. Interior design work for the 148,000 S.F. facility.
- **Sherrard Middle School\***; addition of commons area and commercial kitchen, classroom renovation for the 64,000 S.F. facility
- 

\*Denotes experience prior to becoming a team member at Michael Baker international.

## William D. Neider, P.E.

### Project Manager

#### General Qualifications

Mr. Neider's engineering experience has included performing a wide variety of civil engineering projects in multiple states and countless municipalities. He has worked in various areas of civil engineering practice with his primary area of experience being focused in Land Development, Mining Permitting and Reclamation Projects, Local Transportation projects, and Municipal Services. He has managed projects and designed the improvements and infrastructure for commercial development, military/U.S. Government, residential subdivisions, industrial parks and sites, educational facilities, and local streets. In addition to Land Development experience, he has designed and directed a number of mining facilities infrastructure permitting and reclamation projects including refuse impoundments, coarse refuse piles, erosion and sedimentation control plans, and site reclamation. He has experience in numerous transportation projects varying from interstate routes to local streets including the design of traffic circles and other traffic calming techniques. He also performed municipal engineering designs that include water distributions extensions, sewer modeling/design, drainage studies and flood abatement designs. In all areas of his experience, he has been involved in every aspect of the design and construction document preparation as well as management of design teams and project management. Mr. Neider has also been involved in the oversight of the construction phase of projects. His experience has been with coordinating the review of project submittals, answering Request for Information and resolving construction related issues to ensure proper conformance to the design intent.

#### Experience

**Full Facility Renovation Technical Assessments. *U.S. Army Corps of Engineers, Louisville District.*** Technical Lead. Responsibilities included being the civil lead for the technical assessments of three existing Army Reserve Centers. Assessments included items such as pavement conditions, curbs, sidewalks, aprons, drainage conveyance and structures, detention facilities, POV and MEP parking areas and layout, vehicle circulation, retaining walls, erosion controls, ADA accessibility, signage, site lighting, and landscape. Also included was an Anti-Terrorism Force Protection (ATFP) evaluation. The report included recommendations for site improvements to bring the facilities up to the required ATFP and Unified Facilities Criteria (UFC) and the associated construction cost.

**Repair Small Arms Range. *Ohio Air National Guard.*** Project Manager. Michael Baker performed onsite investigation and assessment to determine the feasibility of repairs to the existing outdoor small arms firing range at Mansfield Correctional Institute. Services included site investigations, hazardous material survey, aquatic resources, range, and facility assessments. Also included was an Environmental Baseline Survey with Phase I and some Phase II environmental work. A Small Arms Feasibility Report was provided and was comprised of all the

*Years with Michael Baker: 8*

*Years with Other Firms: 11*

#### Degrees

B.S.A.S., 2001, Civil Engineering Technology, Youngstown State University

#### Licenses/Certifications

Professional Engineer, Pennsylvania, 2007, P [REDACTED]

Professional Engineer, Virginia, 2007, [REDACTED]

Professional Engineer, Oklahoma, 2008, [REDACTED]

Professional Engineer, Maryland, 2009, [REDACTED]

Professional Engineer, West Virginia, 2013, [REDACTED]

Professional Engineer - Civil, Massachusetts, 2016, [REDACTED]

assessments, recommended capital improvements with preventative maintenance, cost estimates, and final recommendations to meet the mission of the Air National Guard.

**US Coast Guard Region 7 and Region 8 Conditions Assessment and Stormwater Update, Various Locations.** *US Coast Guard Civil Engineering Unit, Miami.* Senior Civil Engineer. Michael Baker performed onsite inspections and conditions assessment of the general facilities with a focus on the stormwater facilities at 6 locations throughout regions 7 and 8 of the US Coast Guard. The team then developed a facilities conditions assessment report, recommendations for updates and improvements and with a stormwater management plan for each location. Michael Baker's services included site investigations, review of permit compliance, update of the stormwater pollution prevention plan, development of the stormwater best management practices (BMP), and community outreach. Michael Baker reviewed the existing National Pollution Discharge Elimination System General Permit for Discharges from State and Federal Small Municipal Separate Storm Sewer Systems (MS4), state and local MS4 requirements, and the facility stormwater pollution prevention plan to identify data gaps. Michael Baker conducted a site visit to collect and confirm information and to assess stormwater management issues.

**General Architect and Engineering Services Contract, U.S. and its Territories.** *U.S. Coast Guard, CEU Cleveland.* Senior Civil Engineer. Responsible for field assessment and existing conditions reports for the U.S. Coast Guard facilities. The assessment included items such as pavement conditions, curbs, sidewalks, aprons, drainage conveyance and structures, detention facilities, retaining walls, erosion controls, and landscape. The report included recommendations for site improvements categorized by what was needed immediately and what was needed within five years. Michael Baker is providing services under a U.S. Department of Homeland Security \$50 million, 10-year indefinite delivery-indefinite quantity general architect and engineering contract for work at U.S. Coast Guard facilities within the U.S. and its territories. The scope of the contract includes modifications and renovations to existing structures as well as new construction. Facility types and applications include space planning, light commercial buildings and their mechanical and electrical systems, site utilities, waterfront facilities, dredging, structural inspections, and runways.

**Facility Condition Assessment Pilot Projects, Cleveland and Columbus, Ohio.** *FedEx Ground Package Systems, Inc.* Senior Civil Engineer. Responsibilities included a field assessment and existing conditions report for the FedEx site facilities. Assessment included items such as pavement conditions, curbs, sidewalks, aprons, drainage conveyance and structures, detention facilities, parking layout and stripping, retaining walls, erosion controls, ADA accessibility, site lighting, and landscape. The report included recommendations for site improvements categorized by what needs done immediately and within five years.

**Cutter and Base Sewage System Study.** *U.S. Coast Guard Station Sallisaw, Sallisaw, Oklahoma* Project Manager. Michael Baker provided on-site assessment of existing infrastructure and components of the sewage collection, conveyance, and treatment systems of Cutter Muskingum and the cutter support team at the base. The purpose of the study was to develop two conceptual alternatives to address future sewage and treatment needs, including recommended repairs to the sanitary sewage system. One of the alternatives was to decommission the sewage lagoon. The study also developed a basis of design for the recommended alternative, identified regulatory considerations and permitting needs, and provided conceptual-level construction cost.

**Provide Site Assessment, Concept Demo and Single Design Concept for the Holidaysburg's VA Home.** *Massaro Company.* Senior Civil Engineer. Responsible for field assessment and existing conditions report for the existing site facilities as part of a physical needs assessment. The assessment included items such as pavement

conditions, curbs, sidewalks, aprons, drainage conveyance and structures, detention facilities, parking layout and stripping, retaining walls, erosion controls, ADA accessibility, site lighting, and landscape. The report included recommendations for site improvements categorized by what needs done immediately and what needs to be done within five years. Also, responsible for work on conceptual site, grading, drainage, and utility plans for proposed CLC facility to be constructed onsite.

**Facility Condition Assessment Omaha. *FedEx Ground Package Systems, Inc.*** Senior Civil Engineer. Responsible for a field assessment and existing conditions reports for the Fed Ex site facilities. Assessment included items such as pavement conditions, curbs, sidewalks, aprons, drainage conveyance and structures, detention facilities, parking layout and stripping, retaining walls, erosion controls, ADA accessibility, site lighting, and landscape. The report included recommendations for site improvements categorized by what was needed immediately and what was needed within five years.

**Addison Terrace Redevelopment Master Planning and Engineering Services, Pittsburgh, Pennsylvania. *Housing Authority of the City of Pittsburgh.*** Senior Civil Engineer. Responsibilities included site layout, geometric design, grading, stormwater management, and earthwork quantities. Also included quality and constructability review. As part of a multidisciplinary consulting team, Baker provided planning, civil engineering, and construction phase services for the Addison Terrace housing complex into a new, mixed-income, mixed-use community. Michael Baker's services included master planning, civil engineering for site design and utilities, construction-phase services, community outreach, and stakeholder coordination.

**Renovation and Upgrade Support for Facilities and Base-Wide Systems, Joint Base Balad, Balad, Iraq. *U.S. Air Force Material Command.*** Senior Civil Engineer. Responsibilities included the design and layout of the several facilities in accordance with the United Facilities Code (UFC). Areas of design were grading, horizontal and vertical geometry, parking layout, pavement, and utilities. Also performed initial site assessment of existing conditions and recommendations. Michael Baker provided architectural and engineering services for the renovation and reconstruction of facilities at the base. Michael Baker's services included preparation of design and construction documents for the majority of the facility renovations and preparation of detailed design-build request for proposal documents for the base prime power rehabilitation and upgrade, the navigational aid systems, and the base-wide electronic switching system and communications management system.

**Garfield Heights Redevelopment PH 4 - PHFA Submission Services. *Garfield Heights Phase 2, LLC.*** Senior Engineer. Responsibilities included site layout, geometric design, grading, stormwater management, and earthwork quantities. Also included quality and constructability review.

## Steven Savich, P.E.

### Land Development Manager

#### General Qualifications

Mr. Savich's experience has included performing a wide variety of projects in multiple states and countless municipalities. He has worked in many areas of the Civil Engineering practice with his primary areas of experience focused in land development and planning, municipal services, and local transportation projects. He has managed and designed the improvements and infrastructure for urban redevelopment, industrial parks and sites, residential subdivisions, commercial development, military/U.S. Government, local streets, and educational facilities. In addition to land development experience, he has designed and directed a number of transportation projects varying from interstate routes to local streets including the design of traffic circles and other traffic calming techniques. He has also performed municipal engineering designs that included water distribution extensions, sewer modeling/design, drainage studies and flood abatement designs. Mr. Savich works to integrate the principles of Low Impact Development into the design of all projects with an interest in functional and economically feasible applications. In all areas of his experience, he has been involved in every aspect of the design and construction document preparation, as well as management of design teams, project management and construction administration.

#### Experience

**Renovation and Upgrade Support for Facilities and Base-Wide Systems, Joint Base Balad, Balad, Iraq. U.S. Air Force Material Command.** Engineering Manager. Managed the Civil engineering efforts for the project. The project scope included the creation of contract documents to illustrate exterior renovation work for the onsite contractors to bid and execute. The work included site plans, utility connection plans, contingency utility plans if no service was available as well as paving and drainage plans. All work was done on an accelerated schedule and broken into multiple bid packages. The team developed a system to standardize the project specifications, details and deliverable format to streamline delivery of the packages. Michael Baker provided architectural and engineering services for the renovation and reconstruction of facilities at the base. Michael Baker's services included preparation of design and construction documents for the majority of the facility renovations and preparation of detailed design-build request for proposal documents for the base prime power rehabilitation and upgrade, the navigational aid systems, and the base-wide electronic switching system and communications management system.

**P-478 Navy Gateway Inn & Suites (NGIS), Naval Station Newport, Rhode Island. NAVFAC MIDLANT NEIPT.** Engineering Manager. Managed the Civil engineering services for the project. Services included site and utility demolition, site plan development, site grading and drainage design as well as complete utility connectivity from the various connection points to the building. Michael Baker is the designer of record for the new 200 key, 104,000-square-foot Navy Gateway Inns & Suites hotel. Michael Baker's services included architecture, interior design, civil engineering, landscape architecture, mechanical engineering, plumbing design, fire protection design, and sustainable design.

**Years with Michael Baker:** 10

**Years with Other Firms:** 12

#### Degrees

M.S., 2003, Civil Engineering,  
Youngstown State University

B.S., 1995, Civil Engineering,  
Youngstown State University

#### Licenses/Certifications

OSHA 40-Hour HAZWOPER  
Certification

Professional Engineer, Ohio, 2000,  
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**Park Place Student Housing Development, Youngstown, Ohio. *Place Properties.*** Project Manager. Project manager for all work performed under the contract. Michael Baker provided surveying services for the development of student housing at Youngstown State University. The project was performed for Place Properties, a national developer of student and military housing. Michael Baker's tasks included conducting an ALTA survey of the project property.

**Hopewell Business and Industrial Park Phase II, Commerce Way, Hopewell, Pennsylvania. *Beaver County Corporation for Economic Development.*** Engineer. Responsible for utility coordination. The Beaver County Corporation for Economic Development (BCCED) desired to proceed with mass grading operations to extend an ongoing Business and Industrial Park project to an area behind a recently constructed cul-de-sac (Commerce Way) and "pad-ready" development sites. Michael Baker designed the mass grading to be performed in such a way as to allow for the future extension of Commerce Drive and adjacent building pads. Michael Baker's responsibilities included a Survey Update, preparation of Grading Plans and NPDES Permitting, Bid Phase Services, and Construction Inspection.

**Middletown Station Relocation Analysis, Middletown, Pennsylvania. *Pennsylvania Department of Transportation, Central Office.*** Technical Lead. Responsibilities included production of site development options during the planning phase of the project. As the project evolves Mr. Savich will provide all civil engineering for the project including design of the site pavements, geometrics, grading, stormwater, and utility services. Michael Baker is performing an alternatives analysis of potential new locations for the Middletown Station and identifying the program and preferred alternatives for design development and construction. The feasibility study and alternatives analysis include efforts to identify opportunities to maximize the benefits of these investments through land-use and development strategies in the surrounding community.

**Addison Terrace Redevelopment Master Planning and Engineering Services, Pittsburgh, Pennsylvania. *Housing Authority of the City of Pittsburgh.*** Project Manager. Participated in the Master Planning process with third party Architecture and Landscape design teams. Responsible for all design and permitting documentation as well as coordination with all relevant agencies. The resulting plan and cost estimate will be used as the guidance for final design of the resulting development. As part of a multidisciplinary consulting team, Baker provided planning, civil engineering, and construction phase services for the Addison Terrace housing complex into a new, mixed-income, mixed-use community. Michael Baker's services included master planning, civil engineering for site design and utilities, construction-phase services, community outreach, and stakeholder coordination.

**Garfield Commons Redevelopment, Pittsburgh, Pennsylvania. *Urban Redevelopment Authority of Pittsburgh.*** Project Manager. Provided technical oversight of the design team preparing the plan and specification documents. He was responsible for all design and permitting documentation as well as coordination with all relevant agencies. Michael Baker provided engineering services for the redevelopment of the Garfield Heights public housing development to Garfield Commons, a mixed-income residential neighborhood. Michael Baker's services included planning, site design, utility coordination and design, grading and drainage design, the preparation of erosion and sediment control plans, the design of sidewalks and parking facilities, landscape architecture, and construction management and construction inspection.

**Addison Terrace Redevelopment Phase I - Public Improvement Plans. *KBK Enterprises.*** Project Manager. Managed all aspects of project delivery of Public Improvement documents while overseeing technical staff and coordinating with client and agency contacts.

**Garfield Heights Redevelopment - PH 4 Public Improvements. *KBK Enterprises.*** Project Manager. Provided technical oversight of the design team preparing the plan and specification documents. He was responsible for all design and permitting documentation as well as coordination with all relevant agencies.

**Addison Terrace Redevelopment, Phase I - Site Development Services. *KBK Enterprises.*** Project Manager. Managed all aspects of project delivery of Site Development documents while overseeing technical staff and coordinating with client and agency contacts.

**Preliminary Site Development Work for Multifamily Residential Development. *LaQuatra Bonci Associates.*** Project Manager. Provided land use planning and engineering feasibility services for the redevelopment for private properties within the Larimer neighborhood of Pittsburgh. Services included site plan development, conceptual utility routing and order of magnitude cost estimating. Michael Baker provided engineering support of the master planning effort for public housing redevelopment in the Larimer Neighborhood. The services provided included the evaluation of the proposed conceptual site plan to validate that it was in conformance to the City of Pittsburgh and other applicable design requirements.

**Patton Terrace Stormwater Management Improvements Pilot Project, McLean, Virginia. *Fairfax County, DPW & ES.*** Technical Lead. Civil Discipline Lead. Managed the preparation of plans and detailed design of local street plans that incorporated pilot program Green Infrastructure improvements. Michael Baker provided engineering services for a pilot project to improve stormwater management in the Patton Terrace neighborhood. Michael Baker's services included base map development, oversight of geotechnical investigations, hydrologic and hydraulic modeling, field investigation, preliminary and final design of stormwater management infrastructure, preliminary and final design of related roadway and parking lot improvements, permitting, plan review workshops and meetings, and public involvement. Michael Baker also performed a review and analysis of an infill and residential development study that the county had published in 2000.

**Design of U.S. Army Reserve Center Renovation and Expansion, Homewood, Illinois. *U.S. Army Corps of Engineers, Louisville District.*** QA/QC. Responsible for ITR reviewer for all Civil Engineering plan and specification materials. As designer of record, Michael Baker provided architectural and engineering services for the renovation of a 400-member U.S. Army Reserve Center (ARC) and construction of two single-story additions totaling 35,694 square feet—a 34,294-square-foot Training Building and a 1,400-square-foot ancillary structure—along with a 3,500-square-foot Unheated Storage Building. The new construction includes a 22,000-square-foot parking area for military equipment and 140 parking spaces for privately owned vehicles. Tasks were performed under an indefinite quantity-indefinite delivery engineering agreement. Michael Baker designed the training facility to meet LEED® Silver certification. Michael Baker's services included architecture, surveys, environmental and geotechnical investigation, all site and building engineering, cost estimating, value engineering, and LEED® credit template documentation. Administrative and training 60,500-square-foot building. This project has achieved LEED certification.

**09LRD0037 Ashley FFR RFP. *U.S. Army Corps of Engineers, Louisville District.*** QA/QC. Provided oversight and quality controls for the Civil engineering portion of the project. This project involved a major renovation of an existing building which included deficiency repairs, upgrades to current design criteria, and reprogramming and renovation of existing spaces for changed use.

## David J. Hilliard, P.E., LEED AP BD+C

### *Mechanical Engineer*

#### **General Qualifications**

Mr. Hilliard has a wide range of "hands on" design, engineering, and construction experience. From his beginnings as a carpenter he has expanded his professional abilities to a senior designer for Michael Baker. His recent design experience has included the complex mechanical design of such projects as a large Charleston, West Virginia hospital, a Bus Maintenance Garage and office building for the West Virginia Department of Transportation, an Army National Guard Armory HVAC/Electrical renovation, planning and engineering at the West Virginia Capitol Complex including plumbing renovation design on the historic State Capitol Building. His resume covers over 30 years of real world work in engineering, design, fabrication and construction in both the mechanical and general trades.

Over the years, while practicing his profession, Mr. Hilliard continued his education by studying mathematics, civil and mechanical engineering, finally taking degrees in both mathematics and mechanical engineering. He has continued his professional development through his involvement with ASHRAE, ASME, ASPE, USGBC, and other pertinent organizations.

#### **Experience**

##### **Design of Three PEMB T-Hangars, Morgantown Municipal Airport (MGW), Morgantown, West Virginia. *Morgantown Municipal***

**Airport.** Mechanical Engineer. Provided mechanical, electrical, and plumbing engineering for T-hangars and medium Voltage Ductbank to supply the facility. Michael Baker provided design and engineering services for three pre-engineered metal building (PEMB) t-hangars west of the West Virginia Army National Guard Readiness Center known as the East Side Development. Phase 1 of the project encompassed development of infrastructure, including site grading, drainage, bituminous taxilanes, pavement markings, vehicle parking, and fencing for the three t-hangars. Phase 2 encompassed the t-hangars on the east side of the airfield and included site civil, structural, architectural, interior, mechanical, plumbing, fire protection, and electrical utilities design. Michael Baker also provided bidding phase support and construction management services.

**City of Nitro. *City of Nitro.*** Electrical Engineer. Responsible for streetscape lighting design and engineering.

**Design-Build Coonskin Park Access Road Bridge, Charleston, West Virginia. *West Virginia Department of Transportation, Division of Highways.*** Project Engineer. Provided concept design, project management, and MEP engineering for the WVANG military base main Access Control Facility. Michael Baker provided engineering services for the design-build construction of a new three-span girder bridge spanning the Elk River and providing

*Years with Michael Baker: 8*

*Years with Other Firms: 19*

#### **Degrees**

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

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

#### **Licenses/Certifications**

Professional Engineer - Mechanical, West Virginia, 2011, [REDACTED]

LEED Accredited Professional BD+C, West Virginia, 2012, [REDACTED]

Professional Engineer - Mechanical, Kentucky, 2017, [REDACTED]

Professional Engineer - Mechanical, Mississippi, 2016, [REDACTED]

Professional Engineer - Mechanical, Louisiana, 2016, [REDACTED]

access to Coonskin Park. Michael Baker's services included preliminary and final design, construction cost and quantities estimates, and shop drawing reviews.

**DODDRIDGE COUNTY EDA-WEST UNION STREETScape.** *Doddridge County EDA.* Electrical Designer. Provided electrical design and budget estimates for streetscape lighting.

**Elkins Crosswalk Improvements.** *City of Elkins.* Electrical Engineer. Responsible for electrical and design for street lighting.

**Madison Streetscape.** *West Virginia Department of Transportation, Division of Highways.* Photographer. Provided street inventory and survey.

**Open-End Architectural and Engineering Services, West Virginia State University, Institute, West Virginia.** *West Virginia State University.* Mechanical Engineer. Oversaw investigative and design services for the university on various projects. Duties included utility infrastructure assessment and design and building component repair. Michael Baker provided architectural and multidisciplined engineering services under a ten-year open-end agreement to design renovations, alterations, reconstruction, or extensions of facilities. Michael Baker's services included programming, planning, design development, construction documentation, evaluations, feasibility studies, cost estimating, and construction contract administration.

**Renovations of 2 existing buildings at the WVUTech Campus.** *West Virginia University.* Mechanical Engineer. Provided project management, mechanical, electrical, and plumbing engineering for the renovation of a 31,000 SF building for engineering labs and a 21,000 SF building for offices and student government.

**West Milford Sidewalks 2013.** *West Virginia Department of Transportation, Division of Highways.* Electrical Designer. Responsible for street lighting and electrical power design.

**Army National Guard Headquarters Renovations, Charleston, West Virginia.** *State Army National Guard Headquarters.* Mechanical Designer. Responsible for all mechanical design oversight and construction management. The Facilities Management Officer (FMO) for the State of West Virginia, Division of Engineering and Facilities (DEF), West Virginia Army National Guard (WVARNG) selected Michael 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. Michael 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. Michael Baker provided Construction Administration and inspection services as well as periodic site review during construction.

**A/E Services for the Office of the Adjutant General, West Virginia Army National Guard, Division of Engineering and Facilities, Charleston, West Virginia.** *State Army National Guard Headquarters.* Mechanical Designer. Responsible for all mechanical design oversight and construction management. The Facilities Management Officer (FMO) for the State of West Virginia, Division of Engineering and Facilities (DEF), West Virginia Army National Guard (WVARNG) selected Michael Baker for a lump sum/fixed fee contract for architectural and engineering services. Michael Baker was selected by the Division of Engineering and Facilities to provide complete design and construction administration services for the renovation of the first floor of the entire wing of the Office of the Adjutant General (TAG). The Owner requested the need for modernization of

approximately 12,000 square feet of existing outdated office space - project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, alterations to the existing floor plan, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal.

**Phase I Streetscape Improvements Design and Construction Services, Nitro, West Virginia.** *City of Nitro.* Electrical Designer. Provided electrical design services for the client's streetscape project. Michael Baker provided design, bid-phase support, and construction services for streetscape improvements to Bank Street, located in the city's business district. Michael Baker's services included base mapping, background data collection, design plans, construction document preparation, bid-phase support, construction management, and construction inspection.

**Campus Master Planning and Architectural and Engineering Services for State Capitol Complex, Charleston, West Virginia.** *State of WV General Services Division.* Planner. Currently providing the State of West Virginia General Services Division a comprehensive campus-wide master plan for the 55+ acre state capitol campus. Working in conjunction with a team of specialized consultants, currently providing programming, cost estimating and facilities planning support. Services included HVAC Loads as well as utility evaluation and planning for future growth. Michael Baker is providing comprehensive master planning services, plans and construction specifications, and construction administration for improvements to the historic West Virginia state capitol campus. Master planning services include plans for expansion, location of new buildings, pedestrian and traffic circulation, landscaping, utilities, and site security. Michael Baker is also providing construction plans and contract administration services for some of the security and landscaping improvements.

**TOWN OF PINEVILLE-STREETSCAPE PHASE II.** *Town of Pineville.* Electrical Designer. Provided electrical design and budget estimates for streetscape lighting.

**Marshall University Campus Master Plan, Huntington, West Virginia.** *Marshall University.* Mechanical Engineer. Performed building assessment and infrastructure analysis. Michael Baker provided engineering services for the update of the campus master plan. Michael Baker's services included traffic analysis, transit system review, concept development for pedestrian and bicycle facilities, and facility and utility assessments.

**DUNBAR-STREETSCAPE.** *City of Dunbar.* Electrical Designer. Provided electrical design and budget estimates for streetscape lighting.

**Wees District Streetscape.** *City of Elkins.* Electrical Designer. Provided electrical design and budget estimates for streetscape lighting.

**Landscape Enhancements.** *City of Nitro.* Electrical Engineer. Responsible for electrical engineering and design.

**Streetscape Phase II.** *City of Nitro.* Electrical Engineer. Responsible for electrical and design for street lighting.

## Ralph W. Gromley, P.L.S., P.S.M.

### Senior Surveyor

#### General Qualifications

Mr. Gromley is a Professional Land Surveyor with several years of experience. His expertise is in boundary retracement and construction services. He has surveyed in multiple states and is very knowledgeable of surveying laws.

#### Experience

**Master Services Agreement - Surveying Services for Gathering Lines, Northern, Western, and Central Pennsylvania; and, Ohio. Confidential Client.** Surveyor. Responsible for the supervision of survey crews and the QA/QC of incoming data. Michael Baker has been performing preconstruction surveys, preparing alignment sheets, performing construction staking, and conducting as-built surveys of over 100 miles of midstream pipelines. Michael Baker initially performs route staking and concentrates on property evidence, environmentally sensitive areas, tree clearing, stream crossings, and other design impacts to support permitting and constructibility issues. Upon routing stakeout and constructibility walk, final preconstruction surveys are performed and alignment sheets displaying a plan and profile of the pipeline are prepared. Michael Baker provides staking of proposed pipeline, limits of disturbance (LOD), and additional temporary work spaces (ATWS) prior to construction and performs in-ditch as-built surveys during construction. Final as-built alignment sheets are prepared and delivered base upon in-ditch as-builts, post-construction survey, inspector weld maps and pipe tallies, and other information.

**E02873 WO#1 S.R. 0308 West Sunbury Bridge, Indiana County, Pennsylvania. Pennsylvania Department of Transportation, District 10-0.** Surveyor. Reviewed survey data for 2015. As a subconsultant, Michael Baker provided surveying, environmental, and right-of-way services for preliminary design of the reconstruction of the S.R. 0308 West Sunbury Bridge. Michael Baker provided horizontal control; established and staked the horizontal alignment; and provided survey data for utility facilities, roadway features, structures, topographic features, property corners, driveways, and buildings. Michael Baker also established a GPS control network, gathered stream data to develop a hydrologic and hydraulic report, established geotechnical test boring locations, and assembled a Level 1B Categorical Exclusion (CE) document. Additionally, Michael Baker investigated the legal right-of-way for S.R. 0308; performed a quality assurance review on the preliminary type, size, and location (TS&L) report; assisted with the development of the preliminary maintenance and protection of traffic plan; and provided a wetland determination, delineation and functions/values assessment.

**NS Maple Heights Parking Lot. Norfolk Southern Corporation.** Surveyor. Responsibilities included the topographic survey of Area of Contract using conventional survey equipment and a 3D Static scanner.

**PNC - ADA Remediation Design. PNC Bank, N.A.** Surveyor. Responsible for all Topographic Surveys using Leica Conventional and Scanner Surveying Tools.

**Years with Michael Baker:** 3

**Years with Other Firms:** 31

#### Degrees

High School Graduate, 1980,  
College Prep, Jefferson Area High School

#### Licenses/Certifications

OSHA 10-Hour Construction  
Outreach Training, 2015

Norfolk Southern e-RAILSAFE  
Certification, 2014

PennDOT Concrete Field Testing  
Technician, Pennsylvania, 2013,

NS Roadway Worker Protection  
Certification, 2015

Land Surveyor, Ohio, 1992, 7431

Professional Surveyor and Mapper,  
Florida, 2007.

**Chippewa Veterans Park Engineering Services, Chippewa Township, Pennsylvania.** *Chippewa Township.* Surveyor. Updated topographic survey for retention basin at north end of project. Michael Baker provided civil engineering, permitting, and construction management/inspection services for a 50-acre community park and sports field complex, including soccer fields, baseball fields, pavilions, play areas, walking trails, parking areas, and other associated amenities and facilities. Initially, Michael Baker reviewed several conceptual site plans with the client to establish an overall master plan for the site. Michael Baker exercised considerable creativity to locate the various fields and other amenities in order to maximize usable space and retain the existing tree line as much as possible. Michael Baker then prepared a site plan depicting the layout of the proposed fields, trails, and parking areas. The plan was used for preliminary and final approval by the Township Planning Commission and Supervisors.

**General Engineering Consulting Services, Beaver County, Pennsylvania.** *Brady's Run Sanitary Authority (Formerly Chippewa Township Sanitary Authority).* Surveyor. Reviewed easements for new sewer lines. Michael Baker provided general engineering consulting services from 2007 to support the ongoing operations of the sanitary sewerage system, including collection, conveyance, pumping, and treatment components. Michael Baker's services included field surveying; design engineering; preparation of bid packages; on-site construction monitoring services; review of development plan submissions; assistance with preparation of the annual operating budget and the annual review of the authority's user charge system; preparation of special studies and reports; attendance at board meetings, work sessions, and other meetings; preparation of permit and grant applications for projects; and geographic information system services.

### **Previous Work History**

Gromley Surveying, Chief Surveyor, 1991 to 2005

Aztech Engineering and Surveying, Chief Surveyor, 1991 to 2005

Hole Montes Engineering and Surveying, Assistant Survey Manager, 2006-2009

Mekis Construction Company, Chief Surveyor, 2009-2014

### **Honors and Awards**

Eagle Scout, Boy Scouts of America, June 1977

### **Professional Affiliations**

Pennsylvania Society of Land Surveyors (PSLS), Allegheny Heartlands Chapter, 11/08/2016, 26530478

## APPENDIX 2 PROJECT PROFILES

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# West Virginia State Capitol Campus Master Plan

Charleston, West Virginia

The West Virginia Capitol Campus was created following the vision of Cass Gilbert, one of America's most significant architect of the first half or the 20th century. The Campus Plan and the Capitol Building represent his most mature work, as they were conceived and executed towards the end of his career and life.

Following his death in 1934, his son, Cass Gilbert Jr., continued his father's vision. Later additions and changes to the campus have shaped the site in different directions since the initial plan. A series of campus wide plans and recent additions and changes of the campus have attempted to address current needs on a piecemeal basis. Today, the State of West Virginia is facing a series of pressing needs and a new reality in a post 9-11 world, and is seeking to:

- Address the needs of the government and its important campus in a comprehensive and holistic manner
- Capture the essence of Cass Gilbert's original vision and design
- Create a framework for addressing future needs, and
- Recommend specific project that can begin to implement the recommendations of the plan.

### Client

State of West Virginia  
Department of Administration  
General Services Division  
Building 1, Room MB60  
1900 Kanawha Boulevard, East  
Charleston, West Virginia 25305

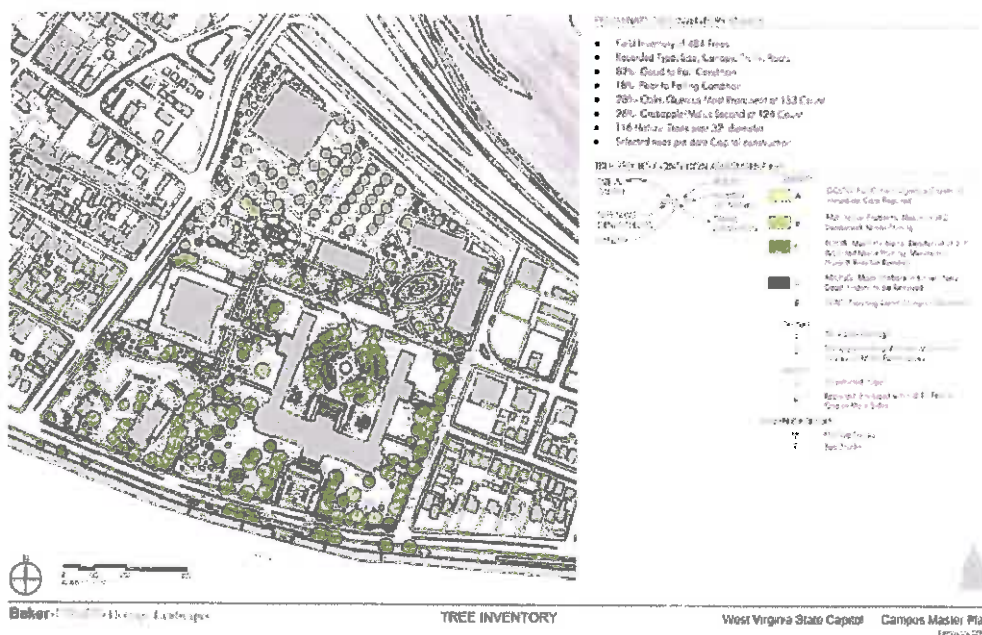
Mr. Robert Krause, AIA, PE  
304-558-9018

### Contract Completion Date

Estimated 2009

### Baker's Role

- Master Planning
- Architecture
- Engineering
- Cost Estimating



The Master Plan is to be prepared in a collaborative manner, engaging a wide range of government leaders, stakeholders, users and other entities. The engagement of all of those groups of interested parties will include several levels of communication. Items to be addressed in the Master Plan include:

- General Campus Planning
- Programming Planning
- Historic Research
- Pedestrian Flow & Accessibility
- Parking
- Security
- Utilities and Infrastructure
- Hazardous Materials
- Future Growth



# Chaplain L. J. Sabalis

## Army Reserve Center

### Revitalization Assessment

*Ashley, Pennsylvania*

The Ashley, PA Army Reserve Center is an existing facility consisting of an Army Training Center, Organizational Maintenance Shop, Military Equipment Parking, and Unit Storage Building. The site area is approximately 5.3 acres. Michael Baker served as the AE evaluation team for the full facility revitalization assessment which included site and building conditions, and recommendations affecting the existing conditions. The project included obtention of technical data from person visual inspections, interviews with users, and an overview of as-built drawings and review of previously completed studies.

Michael Baker conducted physical inspection of site features including roads, parking, curb and gutters, walkways, exterior accessibility, signage, and fencing. Engineers evaluated underground site utilities such as water, stormwater, sanitary, and natural gas systems, the source of the utilities, and the age and materials of pipe mains, inlets, and fire hydrants. Inspection also included verification that site-to-building relationship met current anti-terrorism force protection requirements in relation to stand-off distances. Deficiencies or deterioration of site features were documented and recommendations made for improvement.

The assessment team architect and structural engineer inspected the building environment, including exterior building characteristics such as roofs, exterior wall assemblies, windows, and a visual inspection of the building to detect settlement or cracks; interior characteristics such as the type of foundation and structural floor system; structural deficiencies or damage; interior environment such as finishes and signage; and cost estimates of replacement or repairs necessary to correct site features.

The mechanical and electrical engineers inspected the building systems and determines the equipment life expectancy of features and equipment, used to evaluate the building's ability to support the function it's serving. Building features inspected include HVAC, chiller plant and related systems, ASHRAE and NFPA requirements, piping, water service, and electrical and lighting systems.

The assessment team performed a code review and inspection of the existing conditions to identify major items that require upgrades to bring systems into compliance with current standards. An assessment form was completed which summarized the operability or capability of the various physical, mechanical, and electrical features of the buildings and site. Items in the assessment form include condition, design life, remaining life, repair cost, replacement cost, problem severity, and recommendations.

#### **Client**

U.S. Army Corps of Engineers,  
Louisville District  
600 Dr. Martin Luther King, Jr.  
Place  
P.O. Box 59, Room 972  
Louisville, Kentucky 40202

#### **Completion Date**

2015

#### **Project Costs**

\$10,209,228 (Construction)

#### **Michael Baker's Role**

- Project Management
- Architecture
- Civil Engineering
- Mechanical Engineering
- Electrical Engineering
- Plumbing
- HVAC
- Fire protection
- Cost Estimation

# FedEx Ground Pavement Assessment

## *Council Bluffs, Iowa*

Michael Baker International, with the assistance of Thiele Geotech, Inc., evaluated all pavement areas of the FedEx Ground Complex located in Council Bluffs, Iowa. The assessment team examined and evaluated nearly 300,000 square feet of pavement and adjacent curb, including parking lots, paved entrances and driveways, and loading areas.

The FedEx Complex pavement conditions were assessed and pavement cores and borings were taken. The site observation was performed applying the PASER rating system for both asphalt and concrete pavements.

During the site visit, the types, severities, and amounts of visual distress present in the pavement areas were identified and recorded. This information was then used to determine the surface rating of the various pavement areas, providing an overall measure of condition and an indication of the level of work that will be required to maintain or repair the pavement areas. The distress information and geotechnical investigation provided insight into what was causing the pavement to deteriorate, which was imperative to determining appropriate repair action.

The information collected during the pavement evaluation site visit and geotechnical exploration study was used to create pavement rehabilitation recommendations for each of the specific rated areas. The assessment team also recommended general maintenance strategies to be considered for prolonging pavement life for higher-rated and rehabilitated pavements.

### **Client**

FedEx Ground  
100 FedEx Drive  
Moon Township, Pennsylvania  
15108

### **Completion Date**

2015

### **Project Costs**

\$524,577 (Construction)

### **Michael Baker's Role**

- Civil Engineering
- Planning
- Geotechnical

# Fort Devens Army Reserve Center Revitalization Assessment

*Fort Devens, Massachusetts*

The Fort Devens, MA Army Reserve Center is an existing facility consisting of two buildings and adjacent privately-owned vehicle parking lots. The site area is approximately 2.5 acres. Michael Baker served as the AE evaluation team for the full facility revitalization assessment which included site and building conditions, and recommendations affecting the existing conditions. The project included obtention of technical data from person visual inspections, interviews with users, and an overview of as-built drawings and review of previously completed studies.

Michael Baker conducted physical inspection of site features including roads, parking, curb and gutters, walkways, exterior accessibility, signage, and fencing. Engineers evaluated underground site utilities such as water, stormwater, sanitary, and natural gas systems, the source of the utilities, and the age and materials of pipe mains, inlets, and fire hydrants. Inspection also included verification that site-to-building relationship met current anti-terrorism force protection requirements in relation to stand-off distances. Deficiencies or deterioration of site features were documented and recommendations made for improvement.

The assessment team architect and structural engineer inspected the building environment, including exterior building characteristics such as roofs, exterior wall assemblies, windows, and a visual inspection of the building to detect settlement or cracks; interior characteristics such as the type of foundation and structural floor system; structural deficiencies or damage; interior environment such as finishes and signage; and cost estimates of replacement or repairs necessary to correct site features.

The mechanical and electrical engineers inspected the building systems and determines the equipment life expectancy of features and equipment, used to evaluate the building's ability to support the function it's serving. Building features inspected include HVAC, chiller plant and related systems, ASHRAE and NFPA requirements, piping, water service, and electrical and lighting systems.

The assessment team performed a code review and inspection of the existing conditions to identify major items that require upgrades to bring systems into compliance with current standards. An assessment form was completed which summarized the operability or capability of the various physical, mechanical, and electrical features of the buildings and site. Items in the assessment form include condition, design life, remaining life, repair cost, replacement cost, problem severity, and recommendations.

## **Client**

U.S. Army Corps of Engineers,  
Louisville District  
600 Dr. Martin Luther King, Jr.  
Place  
P.O. Box 59, Room 972  
Louisville, Kentucky 40202

## **Completion Date**

2014

## **Project Costs**

\$29,394,054 (Construction Est.)

## **Michael Baker's Role**

- Project Management
- Architecture
- Civil Engineering
- Mechanical Engineering
- Electrical Engineering
- Plumbing
- HVAC
- Fire protection
- Cost Estimation

# Hollidaysburg, PA Veterans Home

*Hollidaysburg, Pennsylvania*

Michael Baker conducted a site assessment in order to provide the Department of Military and Veteran Affairs (DMVA) with a decision-making and programming tool to establish future restoration and/or replacement projects at the Hollidaysburg Veterans Home campus. The campus consists of ten buildings situated on nearly 105 acres. The report evaluated the existing conditions of the site and facilities with respect to intended use, accessibility requirements, and functionality.

The assessment team developed existing conditions plans from owner-provided and publicly available information, and created conceptual site plans including a site plan, grading and drainage plan, and utility plan, and detailed the design intent for the purpose of effectively conveying the feasibility of the design solution and providing a basis for a cost estimate. Information provided included limits and types of pavement, contouring including cut/fill estimates, utility routing, size estimates, and material types. Michael Baker provided a basis of design report to cover regulatory needs, design intent, and design assumptions to facilitate the owner's evaluation of the options' impact.

Michael Baker reviewed site information to prepare base files for demolition plan studies, and coordinated the design intent of a new facility with the existing infrastructure at the site to recommend a demolition approach. The approach allowed for the facility to continue normal operation during construction and following construction, the removal of unnecessary infrastructure. The team provided a set of concept demolition plans and a written summary of the proposed demolition concept to provide design intent, reasoning, and basis for removal or maintenance of infrastructure elements.

The assessment team conducted a site walk and data-gathering effort which included the visual inspection of all accessible and visible site features. A report was subsequently compiled to summarize the findings of the site investigation, including the site background information, general discussion of the site features at each location and how the features fit into the overall site infrastructure network, the condition of the various site elements at each location (pavement, walks, drainage collection, stormwater control, etc.), and any observed deficiencies that require corrective action. Michael Baker provided a photo log to illustrate conditions with particular emphasis on deficiencies, and also recommendations for necessary corrective action.

## *Client*

Massaro CM Services, LLC  
120 Delta Drive  
Pittsburgh, PA 15238

## *Completion Date*

2015

## *Michael Baker's Role*

- Feasibility Study
- Civil Engineering
- Cost Estimating

# Orangeburg Army Reserve Center Revitalization Assessment

*Orangeburg, New York*

The Orangeburg, NY Army Reserve Center is an existing facility consisting of two buildings and adjacent parking areas. The site area is approximately 18.40 acres. Michael Baker served as the AE evaluation team for the full facility revitalization assessment which included site and building conditions, and recommendations affecting the existing conditions. The project included obtention of technical data from person visual inspections, interviews with users, and an overview of as-built drawings and review of previously completed studies.

Michael Baker conducted physical inspection of site features including roads, parking, curb and gutters, walkways, exterior accessibility, signage, and fencing. Engineers evaluated underground site utilities such as water, stormwater, sanitary, and natural gas systems, the source of the utilities, and the age and materials of pipe mains, inlets, and fire hydrants. Inspection also included verification that site-to-building relationship met current anti-terrorism force protection requirements in relation to stand-off distances. Deficiencies or deterioration of site features were documented and recommendations made for improvement.

The assessment team architect and structural engineer inspected the building environment, including exterior building characteristics such as roofs, exterior wall assemblies, windows, and a visual inspection of the building to detect settlement or cracks; interior characteristics such as the type of foundation and structural floor system; structural deficiencies or damage; interior environment such as finishes and signage; and cost estimates of replacement or repairs necessary to correct site features.

The mechanical and electrical engineers inspected the building systems and determines the equipment life expectancy of features and equipment, used to evaluate the building's ability to support the function it's serving. Building features inspected include HVAC, chiller plant and related systems, ASHRAE and NFPA requirements, piping, water service, and electrical and lighting systems.

The assessment team performed a code review and inspection of the existing conditions to identify major items that require upgrades to bring systems into compliance with current standards. An assessment form was completed which summarized the operability or capability of the various physical, mechanical, and electrical features of the buildings and site. Items in the assessment form include condition, design life, remaining life, repair cost, replacement cost, problem severity, and recommendations.

## **Client**

U.S. Army Corps of Engineers,  
Louisville District  
600 Dr. Martin Luther King, Jr.  
Place  
P.O. Box 59, Room 972  
Louisville, Kentucky 40202

## **Completion Date**

2014

## **Project Costs**

\$17,084,492 (Construction Est.)

## **Michael Baker's Role**

- Project Management
- Architecture
- Civil Engineering
- Mechanical Engineering
- Electrical Engineering
- Plumbing
- HVAC
- Fire protection
- Cost Estimation

## Winchester Pedestrian Mall

*Winchester, Virginia*

The Winchester Pedestrian Mall along Loudon Street in Old Town Winchester is a complete revitalization of an existing pedestrian only commercial district.

Located along Winchester's historic core, the pedestrian mall had started to show deterioration both above and below grade. Michael Baker's scope included complete utility and storm water replacement within the mall, the replacement of three monumental gateways, fountains and an ice rink. Coupled with the physical attributes, the project included lighting, plantings, seating, and new pavement.

The Michael Baker team conducted a series of public meetings, presented Sketch Up models during community open house events to provide the community with information, seek their input as well as entertain questions for the design team.

Michael Baker was honored to receive ENR's Merit Award for the revitalization of the Winchester Pedestrian Mall in 2014.

### *Client*

City of Winchester, Virginia

### *Completion Date*

2014

### *Michael Baker's Role*

- Project Management
- Architecture
- Planning
- Land Development
- Electrical Engineering
- Plumbing Engineering
- Cost Estimation



## APPENDIX 3 REFERENCES

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Each of the Project Profiles found in Appendix 2 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:

- **Good News Mountaineer Garage**  
1637 4<sup>th</sup> Avenue  
Charleston, WV 25387  
*Asley Orr, Executive Director*  
*(304) 344-8445*
- **West Virginia State University**  
P.O. Box 1000  
Institute, WV 25112-1000  
*Mr. Marvin Smith, Facilities Director*  
*(304) 550-2839*
- **West Virginia Department of Transportation – Division of Highways**  
1900 Kanawha Boulevard East,  
Building 5, Room A-109  
Charleston, WV 25305  
*Mr. Ryan Burns, Grant Administration Project Manager*  
*(304) 558-3304*
- **City of Nitro**  
2009 20<sup>th</sup> Street  
Nitro, WV 25143  
*Honorable David Casebolt, Mayor*  
*(304) 419-3322*
- **City of Winfield**  
1 Main Street  
Winfield, WV 25213  
*Honorable Randy Barrett, Mayor*  
*(304) 586-2122*

