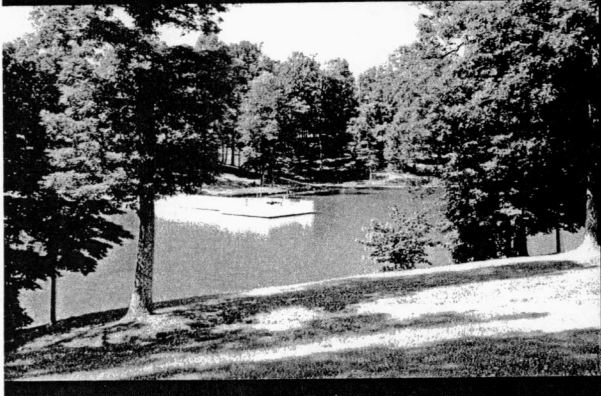




BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

“Creating Liveable
Communities”



Statement of Professional Qualifications

Mike Miller Park
Master Plan Project

Marshall County
Fiscal Court & Park Board

June 2, 2017



COME TO RELAX • STAY TO EXPLORE

Learn More: www.bfwengineers.com • www.marcumengineering.net



Introduction

Bacon | Farmer | Workman (BFW) is a multi-disciplinary firm committed to expanding and growing our areas of expertise within our community which allows us to remain a **constant and reliable full-service** resource to our clientele. BFW has an established history throughout western Kentucky and has been providing reliable design services for over 20 years in an ever-increasingly competitive “green” industry. Through the addition of **Landscape Architectural** planning and design services and the addition of an **in-house ISA Certified Arborist**® we continue to provide better and more diverse services and greater expertise. With a history in **civil, transportation, and geotechnical engineering** BFW has been involved in communities from Calvert City to Lexington, but western Kentucky is where we call home.

Over the last year and a half BFW has continued to improve our region one community at a time through the design and implementation of **more than 6 miles of multi-use paths in Marshall County** alone. We have provided design and implementation for urban pocket parks, streetscapes, and courtyards. “Creating Liveable Communities” is not just a slogan we have adopted at BFW - it is our culture. We believe in providing wonderful spaces that our families can use and enjoy and in providing spaces that others outside of our communities will want to be a part of.

Marshall County is a community on the move! The abundance of trails, parks, lakes and amazing scenery is something that BFW appreciates. Many of our engineers and designers reside in Marshall County because of the long list of amenities it provides. Several more visit Marshall County very regularly through their participation in sporting events such as baseball, soccer, archery, biking, mountain biking, fishing and hunting. We at BFW have a vested interest in the public spaces of Marshall County – we understand the value of being a part of the neighborhood. We “Come to relax”. And we “Stay to Explore”.

BFW is presently the only multi-disciplinary engineering firm in the Commonwealth of Kentucky whom offers landscape architecture, engineering, planning + design, and arboricultural consulting all under one roof.

Challenges + Solutions

The Miller Park master planning project is another milestone for our region. And with such milestones there can sometimes be challenges in the forms of misunderstandings and miscommunication. With in-house multi-disciplinary engineering, landscape architecture, and arboriculture services at BFW, our team members are able to sit down with our clients and listen with a firm understanding of the multiple facets of their projects, whether complex or mundane. We are then able to process the information gathered from various venues such as public input meetings and charrettes and provide potential solutions.

BFW is always on the march to improve and **promote the health, safety, and welfare of the public**. We seek to listen to our clientele and provide unique solutions to their communities’ unique challenges.

Qualifications – Expertise

Jonathan Perkins, ASLA, CLARB will serve as Project Manager and lead designer for the Miller Park Master Plan project. Jonathan is a **Professional Landscape Architect and a ISA Certified Arborist**®, #KY-0768A with over thirteen years of experience in his field. He has performed a broad spectrum of landscape planning/design projects on a multitude of projects through the Commonwealth of Kentucky. Jonathan’s project portfolio includes master planning work for colleges and universities, municipalities, commercial developments, educational facilities/schools, parks, hiking trails and bike paths.

Bobby Deitz, PE, Bobby Riffe, and Kenny McDaniel, PE have over 75 years of combined experience designing and developing public projects including the multi-million dollar Paducah Riverfront Redevelopment which includes



several acres of public open-space on the Ohio river and a transient dock. Their experience developing planned unit developments and their grasp of construction feasibility has been an invaluable resource to the western Kentucky area for decades and it continues to grow.

Other team members include David Ury, PE whom is Principal Electrical Engineer at BFW's sister company Marcum Engineering, LLC with whom we share the same location. David and a very qualified staff of mechanical and electrical engineers and designers provide expertise with utility service design and practical knowledge which guides the master planning process along.

Similar Projects and Past Performance

BFW has performed numerous master planning, site development and public parks projects. A sampling of these projects can be found under our "project experience" tab of this submittal.

Workload Capacity

BFW and subsidiary Marcum Engineering have an overall capacity of 98 full time professionals including Landscape Architects, Professional Engineers, Surveyors and support personnel. With our staff, we have ample capacity to perform the necessary scope of services for the Mike Miller Park Master Plan Project. Please see the tab "firm capacity" in our submittal for reference.

Why BFW?

Project Knowledge –We fully embrace the uniqueness of Marshall County, its community, and Mike Miller Park as an iconic park that was ahead of the curve in recreational land use. Historically, its adoption of a strong funding mechanism to develop a regional park while others were not, has proven to be a success with Mike Miller park. It is a jewel in the western Kentucky region. At BFW, we understand the need for an experienced and knowledgeable team of planners and designers whom have a vested interest in the community. We live, work, and play in Marshall County!

The BFW Team is confident that we have the commitment and qualifications that Mike Miller Park requires to develop it into an even great asset!

Thanks so much! - for your time and consideration.

Professional Practice:

Jonathan is a Professional Landscape Architect with over twelve years of experience in his field. Jonathan earned his LA degree from the University of Kentucky, and has performed arborist consulting and landscape design services on a multitude of projects through the Commonwealth of Kentucky.

Jonathan's range of project design includes work for colleges and universities, municipalities, commercial developments, educational facilities/schools, parks, hiking trails and bike paths.

Project Experience (Limited List):

- US 62 Comprehensive Master Plan: Calvert City, Kentucky
- The City of Paducah, Kentucky Downtown Riverfront Development Project: Paducah, Kentucky
- Paducah Tilghman Courtyard Renovations: Paducah, Kentucky
- 423 Broadway Pocket Park: Paducah, Kentucky
- West Farthing & 10th Street Park: Mayfield, Kentucky
- North 6th and Indiana Street Interpretive Park: Mayfield, Kentucky
- Master Plan for Pedestrian and Bicycle Facilities-Memorial Park on 5th to Kentucky Dam Village: Calvert City, Kentucky
- Shillito Park Multi-Use Trail- Stand Alone and Shared Use Path: Lexington, Kentucky
- Jacobson Park Multi-Use Trail-Stand Alone and Shared Use Path: Lexington, Kentucky
- LFUCG Division of Environmental Services-Dead, Dying & Dangerous Public Trees-City Wide Assessment: Lexington, Kentucky:
- Winchester Road Corridor Landscape Master Plan Update-Corridor/streetscape Master Planning: Lexington, Kentucky
- Bowling Green Historic Railway Park-Bowling Green, Kentucky:
- Wellington Park Bridge Relocation and Boardwalk Addition, Lexington-Fayette Urban Government: Lexington, Kentucky
- Woodland Park Historic Tree Trail Signage, Lexington Tree Board, Lexington-Fayette Urban Government: Lexington, Kentucky



Education & Training:

University of Kentucky,
Bachelor of Science-
Landscape Architecture
Minor-Plant & Soil Science

Years of Experience:

13

State of Kentucky PLA, #780

ISA Certified Arborist, #KY-0768A

LEED Accredited Professional

Project Assignment:

Landscape Architect/
Consulting Arborist

Professional Affiliations:

American Society of
Landscape Architects

KY Chapter of the American
Society of Landscape
Architects



Kenneth McDaniel, PE
Project Engineer

Kenny is a Kentucky Licensed Professional engineer and has more than 24 years of experience as project manager for various design projects. His extensive engineering experience includes: estimating, field observation, feasibility studies, specification generation, engineering reports, progress reports, utility location and the design of various water and sewer projects.

Project Experience (Limited List):

- Mineral Mounds Harbor & Golf Site Development
- Marina Village Phase II Site Development Planning
- Paducah Riverfront Development Project

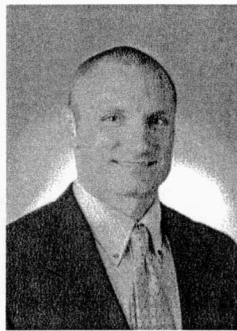
Education & Experience:
University of Louisville-Bachelor of Science-Civil Engineering 1992

State of Kentucky Registered Professional Engineer #21911

Registered Professional Engineer: Kentucky, Illinois

24 years of experience

Available Capacity: 56%



Shannon Hayes, PE
Project Engineer

Shannon joined the BFW team shortly after obtaining his bachelor's degree at Western Kentucky University in 2006. Shannon's area of study at Western concentrated on geotechnical studies and civil engineering.

Project Experience (Limited List):

- Paducah Riverfront Development Project
- Noble Park Lake Stabilization
- South Marshall Middle School/Athletic Fields
- Mineral Mounds Golf & Harbor Site Development
- Paducah Middle School/Athletic Fields

Education & Experience:
Western Kentucky University, Bachelor of Science-Civil Engineering, 2006

State of Kentucky Registered Professional Engineer #27045

11 years of experience

Available Capacity: 60%



Bobby Deitz
Project Engineer

Mr. Deitz has served as our senior civil engineers since joining our firm in 2000. Bobby earned his degree in civil engineering design from Murray State University, and has over 28 years of experience managing civil and structural design projects.

Project Experience (Limited List):

- Marshall County Economic Development Industrial Park Site Assessment
- Mineral Mounds Harbor & Golf Site Development
- Indian Lake Villages-Site Development Planning
- Marina Village Phase II Site Development Planning

Education & Experience:
Murray State University, Bachelor of Science-Civil Engineering Technology

Registered Professional Engineer: Ohio & Arizona

28 years of experience

Available Capacity: 58%



Tim Choate, PE, PLS Project Engineer

Mr. Choate has over 34 years of experience in the civil engineering field. Tim joined Bacon Farmer Workman Engineering & Testing, Inc. after retiring from the Kentucky Transportation Cabinet where he served as Design Engineer for District One in Paducah, Branch Manager for Operations for 3 years, and Branch Manager for Project Development .

Project Experience (Limited List):

- Comprehensive Master Plan-Calvert City, Kentucky
- US 62 Hike/Bike Trail-Calvert City, Kentucky
- Paducah Riverfront Development Project

Education & Experience:

University of Kentucky, Bachelor of Science-Civil Engineering, 1985

Murray State University, Bachelor of Civil Engineering Technology, 1979

State of Kentucky Registered Professional Civil Engineer #15176

State of Kentucky Registered Professional Land Surveyor #2737

34 years of experience

Available Capacity: 64%



Bobby Riffe Project Engineer

Mr. Riffe has 28 years of experience in civil engineering design projects. Before joining Bacon Farmer Workman, Bobby was employed by the Paducah-McCracken County Joint Sewer Agency where he served as the Engineering Systems Manager and gained valuable experience in the area of sanitary sewer systems.

Project Experience (Limited List):

- Ohio County Schools Athletic Fields Upgrades
- Mineral Mounds Harbor & Golf Site Development
- Paducah Riverfront Development Project
- Noble Park Lake Stabilization Project
- Indian Lake Villages Site Development Project

Education & Experience:

Murray State University, Bachelor of Science-Civil Engineering Technology

28 years of experience

Available Capacity: 58%



Jett Wood, PLS-BFW Surveyor

Mr. Wood has extensive training and experience in the field of surveying and civil engineering. With over 25 years of experience, Jett has proven to be an asset in the area of surveying for the firm. Since coming on board with BFW in 2003, Jett has worked in all areas of survey from field work to managing projects.

Project Experience (Limited List):

- Paducah Riverfront Development Project
- Noble Park Lake Stabilization Project
- Comprehensive Master Plan-Calvert City, Kentucky
- US 62 Hike/Bike Trail-Calvert City, Kentucky

Education & Experience:

West Kentucky Technical College, Associates of Drafting, 1989

State of Kentucky Registered Professional Land Surveyor #3445

Professional Registered Land Surveyor: Kentucky & Illinois

25 years of experience

Available Capacity: 68%



Mineral Mounds Harbor & Golf-Eddyville, Kentucky



Mineral Mound Harbor & Golf

City of Eddyville,
Kentucky



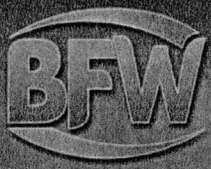
Scope of work included: Master plan with marketing color rendering and civil engineering/ surveying services for the development of a 45 acre residential lake front subdivision. The overall development is to incorporate phased construction to include both single family residential and multi-family town home lots. Master plan shall maximize the number of USACE individual and community dock spots for access to Lake Barkley. Total planned lots for the development are 76 single family dwelling and 3 multi-family lots.

Civil engineering responsibilities for the project include, design for overall development with construction documents divided into phased construction contracts for overall site grading, road system, domestic water distribution system and sanitary sewer collection system.

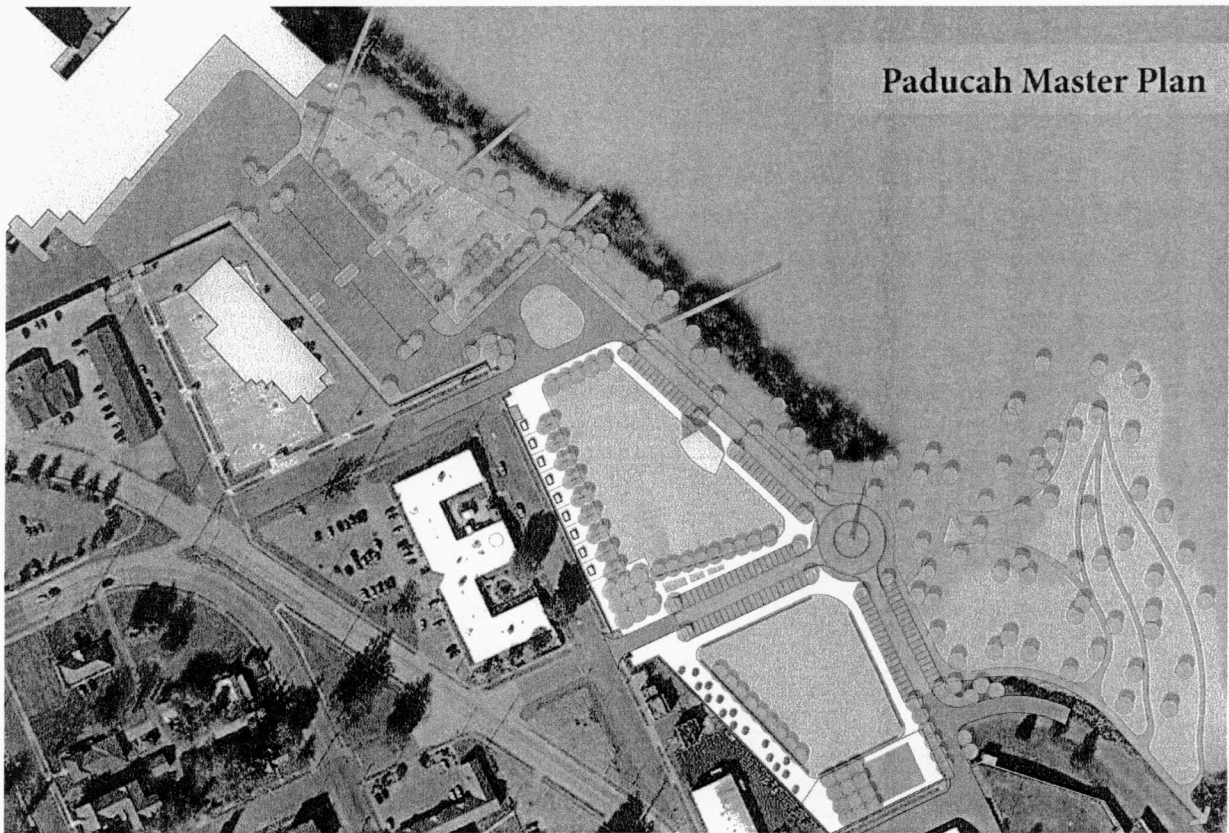
Client:
Mr. Todd Thomason
St. Louis, MO.
314-726-2200

Type of Improvement:
New Site Development to include
Water System

Project Team Member:
Bobby Deitz, PE
Shannon Hayes, PE
Kenneth McDaniel, PE, LEED AP
Bobby Riffe
Jett Wood, PLS



Riverfront Development-Master Plan-Paducah, KY.



This masterplan involved the conceptual study of an approximate 12 acre site adjacent to Shultz Park extension for green-area development. This is a re-development of an area that once occupied a 400 room hotel and parking. This plan included proposed riverfront development concepts including a great lawn, landscaping, walking and bike paths, and park facilities.

This area will complement the Julian Carroll Convention Center and new downtown hotel development. Concepts included festival and special event staging areas and related parking facilities with pedestrian and bike accommodations.

Client:
The City Paducah, Kentucky

Type of Improvement:
Riverfront
Development/Master Planning

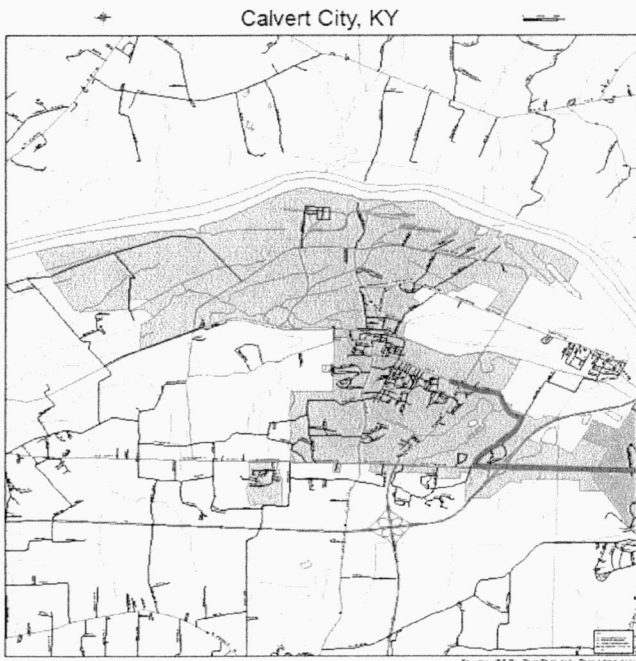
Project Team Member:
Jonathan Perkins, PLS
Kenneth McDaniel, PE, LEED AP
Tim Choate, PE
Shannon Hayes, PE
Bobby Riffe
Jett Wood, PLS



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Relevant Project Experience

Comprehensive Master Plan-City of Calvert City, KY.

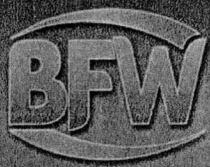


This study involved developing conceptual plans for a 4 mile multi-use walking and bike path within the city limits of Calvert City. This study included the development of Phase I plans for a multi-use path from Memorial park on 5th Avenue to the entrance to Kentucky Dam Village State Resort Park. This plan included a connectivity study from Calvert to Kentucky Dam Village and the regional multi-use plan in the Lake area. Plan included conceptual landscaping plans, interpretive signing, Interstate 24/69 gateway studies, proposed rest areas and parking, and trail head identifications.

Client:
The City of Calvert City, Kentucky
Mayor Lynn Jones

Type of Improvement:
Comprehensive Master Plan

Project Team Member:
Jonathan Perkins, PLA
Kenneth McDaniel, PE, LEED AP
Tim Choate, PE
Jett Wood, PLS



Ohio County Schools Athletic Complex Improvements



PROJECT DESCRIPTION – OHIO COUNTY HIGH SCHOOL AUXILIARY GYMNASIUM: This \$1.60 million dollar project was performed for Ohio County Schools. Bacon Farmer Workman Engineering & Testing, Inc. provided the surveying and engineering (civil and structural) services for the design of this 14,800 square foot Auxiliary Gymnasium at Ohio County High School. This project consisted of a new Auxiliary Gymnasium connected to the existing high school, relocation of existing utilities (water, storm and sanitary sewers, and miscellaneous site work including sidewalks, parking lots, and green spaces. This project provides the high school with additional space for their athletics, including, basketball, volleyball, and wrestling.

PROJECT DESCRIPTION – OHIO COUNTY HIGH SCHOOL FOOTBALL FIELD REPAIRS: This \$30 million dollar project was performed for Ohio County Schools. Bacon Farmer Workman Engineering & Testing, Inc. provided surveying and engineering services for the design and construction of the existing football field at Ohio County High School. Project consisted of repairs to the football field, including, but not limited to, replacement of irrigation system, new drainage system, new Bermuda turf sodding, and re-grading of the entire field. This project provided the high school with a completely renovated football field.

Client:
Ohio County Schools
Ms. Soretta Ralph
270-298-3249

Type of Improvement:
New Athletic Complex/Fields

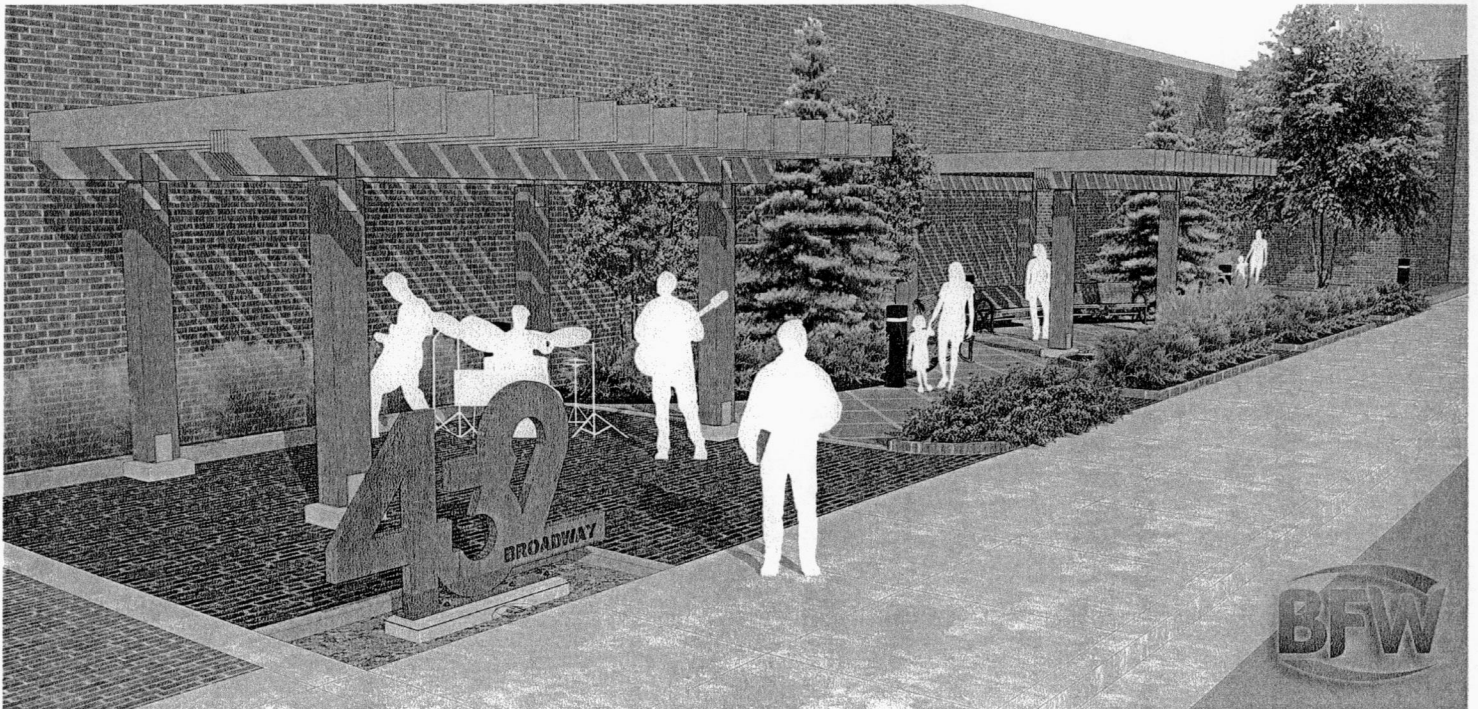
Project Team Member:
Shannon Hayes, PE
Bobby Riffe
Jett Wood, PLS



BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

Relevant Project Experience

432 Broadway Pocket Park-Paducah, Kentucky



BFW was commissioned to provide conceptual designs, construction documents, and construction administration for a 2,600 square foot urban pocket park on the site of a former historic building which was demolished in 2016 due to structural hazards.

The intent of the project is to provide a desirable public space for users during the weekend or on any given weekday. The space provides a venue for live entertainment, two large custom-built wooden pergolas, a few café tables and chairs for dining, benches for people watching, public art installations, and landscape planting areas which form a small green island at the corner of 5th and Broadway Streets.

The project is funded in-part by private donors and touts the use of reclaimed lumber and stone ornaments from the former building as well as historic granite curbing which was salvaged from Paducah city streets.

Client:
The City Paducah, Kentucky

Type of Improvement:
Pocket Park-Downtown
Improvement

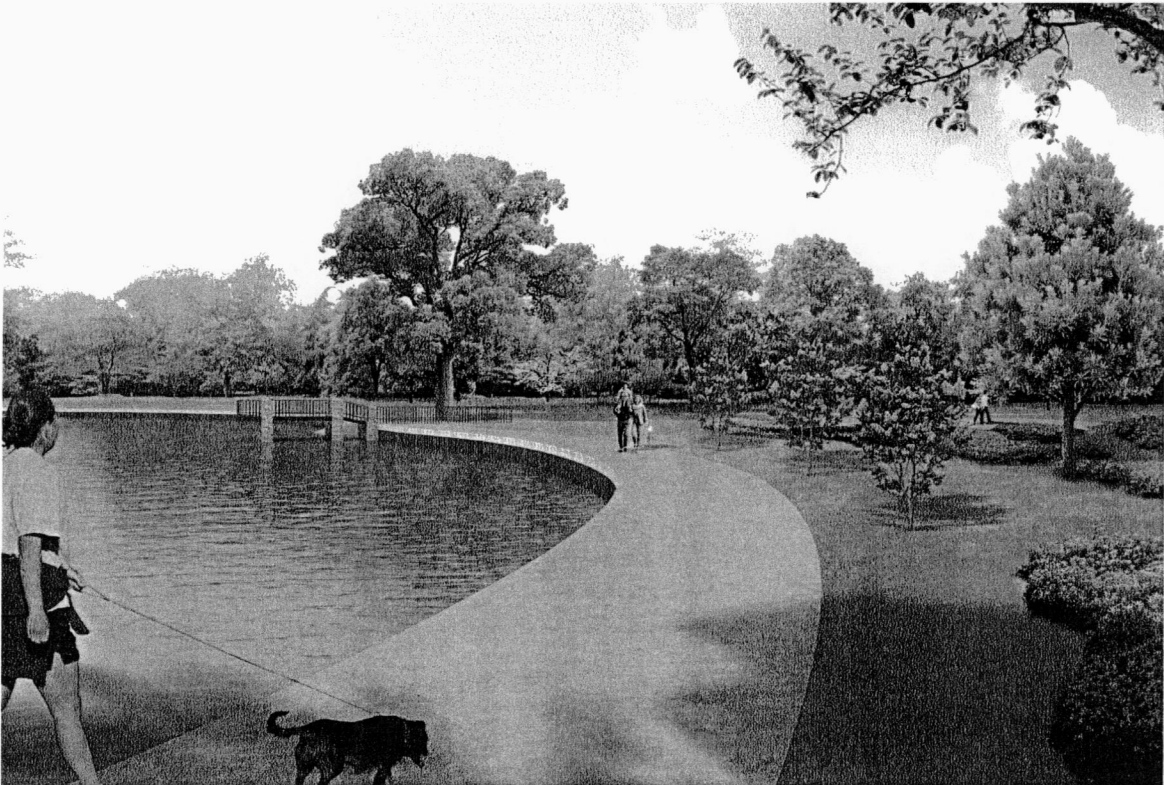
Project Team Member:
Jonathan Perkins, PLA



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Relevant Project Experience

Noble Park Lake Stabilization Project-Paducah, Kentucky



Bacon Farmer Workman performed the engineering design services for the Noble Park Lake Stabilization Project in Paducah, Kentucky. This project was necessary because the bank had been deteriorating for years due to lake fluctuations and the movement of the ducks and geese in and out of the water. The goal of the project was to stabilize the bank, improve the accessibility of the fishing piers, level the sidewalks and make the park more attractive.

Details in the design included using metal sheet piling to create a retaining wall to stabilize the erosion on 665 linear feet of the southeaster side of the Noble Park Lake. Earthwork, drainage, seeding and the construction of new sidewalks were also included.

Client:

The City of Paducah, KY
Mr. Rick Murphy, PE
270-443-5058

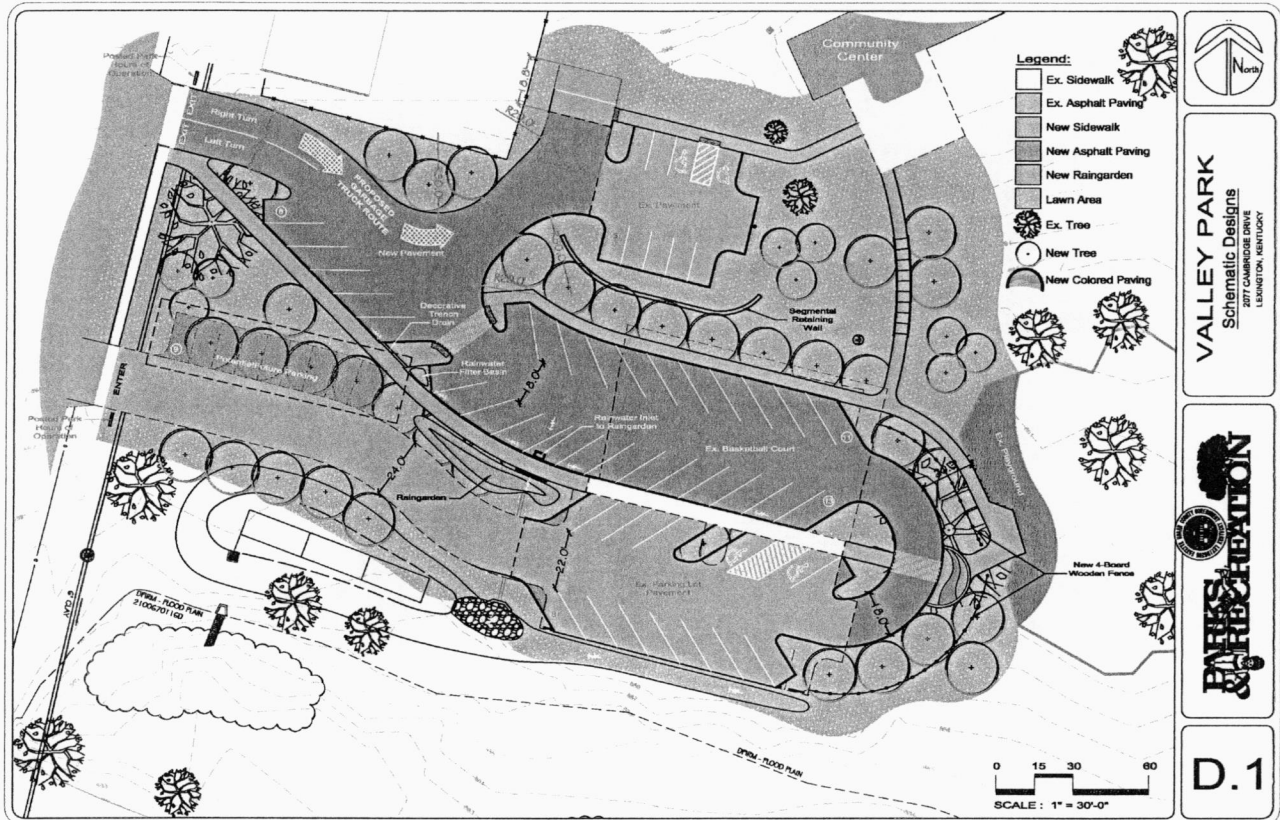
Type of Improvement:
Lake Stabilization

Project Team Member:

Jonathan Perkins, PLS
Kenneth McDaniel, PE, LEED AP
Shannon Hayes, PE
Jett Wood, PLS
Tim Choate, PE



Lexington Valley Park-Lexington, Kentucky



Project Description:

This project included the development of schematic and final designs, as well as construction documents for the addition of approximately 30 parking stalls over multiple phases and years. The project included the re-use, where feasible, of an existing basketball court and base for additional parking, in addition to a secondary entry/exit point for ease of access for park users and emergency vehicles which were restricted to backing out of the existing lot into the street or driving through lawn areas. The project also included reorienting existing parking stalls to accommodate the proposed circulation system while also reducing soil compaction around its perimeter via curbing; providing additional ADA accessible parking, providing new safe pedestrian routes from the street to the park, shade and ornamental tree plantings, and some four-board fencing found throughout Lexington parks.

In addition, the project also addresses the removal of an existing White Ash tree affected by Emerald Ash Borer and proposes to retain the 2+ large Silver Maple trees found on the site. This project was performed by Jonathan Perkins, PLA while with previous employer.

Client:

City of Lexington, Kentucky Parks & Recreation

Type of Improvement:

Site Redevelopment Plan

Project Team Member:

Jonathan Perkins, PLA

Firm Identification/ Firm Capacity



BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

Date Established: Bacon Farmer Workman Engineering & Testing, Inc:
1996

Type of Business: Corporation-Professional Engineering

Location:

500 South 17th Street

P.O. Box 120

Paducah, KY. 42002-0120

Phone: 270-444-9274

Visit us on the web at www.bfwengineers.com

Contact: Mark Workman: mworkman@bfwengineers.com

Our Capacity-Manpower:

Personnel: 68 full time employees

Licensed Professionals

Civil/Site Engineers: 8

Structural Engineers: 4

Landscape Architect: 1

Geotechnical Engineers: 1

Professional Land Surveyors: 7

LEED Accredited Professionals: 3

Professional Geologist: 1

Technical Designers

Civil Site Designers: 9

Structural Designers: 3

Support Professionals

Construction Administrator: 3

Technical Staff: 10

Survey Crew: 6

Drill Crew: 3

Accounting Staff: 4

Administrative Staff: 5

Primary Services: Civil, Structural, Landscape Architecture,
Transportation, Geotechnical Engineering, Survey and Construction
Materials Testing & Inspections

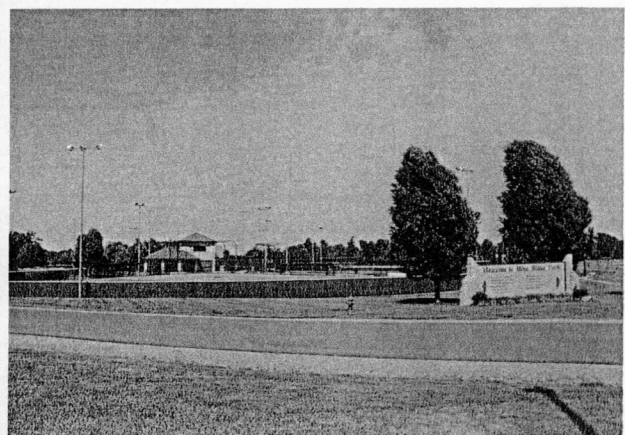
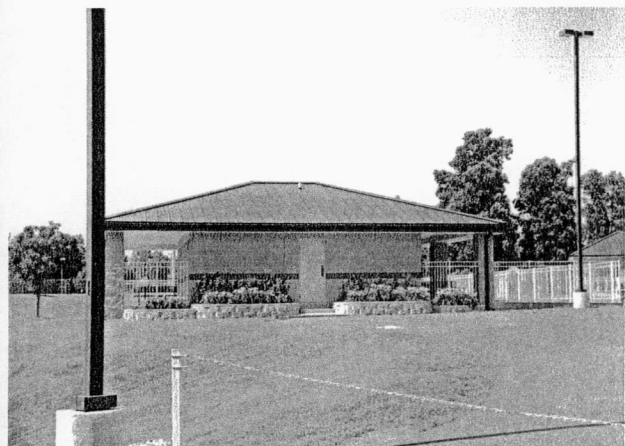
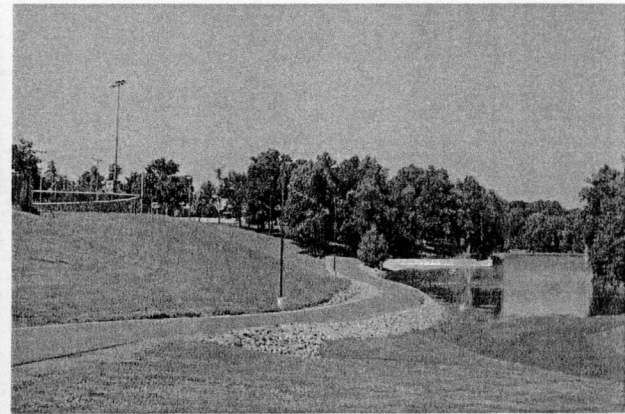
Firm Ownership: Mark Workman, Chris Famer, Ron Bacon

Sister Company-Marcum Engineering, LLC: Mechanical & Electrical
Engineering

Firm Licensure: Kentucky • Illinois • Tennessee •

Arizona • Missouri • Arkansas • Indiana

Branch Offices: Murray, Kentucky/Marion, Illinois/Champaign,
Illinois/Lewisburg, Tennessee





Project Schedule-Mike Miller Park Master Plan Project:

Milestone/Task:	Timeframe:	
Notice to Proceed (NP)		0 Weeks
Project Kick-off Meeting with MCFC Parks Board	NP + 2 Weeks	2 Weeks
Review + Inventory Park's Existing Facilities/Greenspace	NP + 4 Weeks	4 Weeks
Owner Input + Needs - <i>Meeting with MCFC Park Board</i>	NP + 5 Weeks	5 Weeks
Engage Special Interest Groups – <i>Sports Groups, Advocates, etc.</i>	NP + 6 Weeks	6 Weeks
*Engage Stakeholders – <i>Public Input Meeting #1 (PIM (1))</i>	NP + 7-8 Weeks	7 Weeks
Analyze Needs and Preferences	PIM (1) + 2 Weeks	9 Weeks
Develop a Preliminary Program	PIM (1) + 3 Weeks	12 Weeks
Develop a Conceptual Plan with Prioritization	PIM (1) + 5 Weeks	14 Weeks
*Re-engage Stakeholders – <i>Public Input Meeting #2 (PIM (2))</i>	PIM (1) + 7-8 Weeks	16 Weeks
Develop Park Design Guidelines	PIM (2) + 4 Weeks	20 Weeks
Develop Probable Cost Budget	PIM (2) + 6 Weeks	22 Weeks
**Final Master Plan	PIM (2) + 8 Weeks	24 Weeks

* Coordinate Meeting dates with Marshall County Fiscal Court Park Board

** End date is approximate



The landscape architecture and engineering design process is not linear; and that is certainly true in the Mike Miller Park Master Plan project. The process will generate a continuous cycle of information exchanged between Bacon Farmer Workman Engineering and the Marshall County Fiscal Court and Park Board. Our approach is built on trust and effective communication, with the goal of maximizing your budget within the time frame allotted. These components include:

Identify Critical Goals - (Understanding your needs) & Concept Design Documentation - (Creating what you want): We conduct on-site work sessions to confirm your programming needs and establish benchmarks for your schedule and budget. This will establish open communication and give you a voice early in the process.

Our Integrated Delivery Method invokes a holistic approach to the project. This accessibility will create and support an atmosphere where the design team, the Marshall County Fiscal Court and Park Board, and end-user (the Marshall County Community) function as a single, fully integrated unit. Preliminary cost estimates will be presented, so cost saving opportunities can be identified.

We are offering the Marshall County Fiscal Court and Park Board an **experienced** team on this important project. The BFW team is very familiar with Marshall County having performed engineering design on past projects throughout the area. We have had the pleasure of developing a strong working relationship with various local and corporate entities. The BFW team has the available, experienced, and dedicated staff to make the Master Plan Project a success to all parties involved. We understand the importance and the significance of Mike Miller Park to Marshall County and its citizens. We would love to be a part of planning for the future design of the park and its facilities.



Collaboration - (How we will get you there): If orchestrated correctly, information flows freely and rapidly, and things occur as planned then proceed systematically. The BFW team is has worked consistently and has successfully delivered for projects throughout Marshall County, including the US 62 Hike/Bike Trail, the Calvert City Comprehensive Plan project, the Marshall County Industrial Site Assessment and the Mineral Mounds Golf and Harbor project, to name a few. **You, the client, are our most valuable resource, and the success of this project hinges on a unified strategic vision and timely response. With a staff of 68 landscape architecture and engineering professionals, we have the ability and available capacity to take on this project. As a local firm, we can be on-site at any time in a moment's notice should the need arise. This is a benefit that sets us apart from most other firms!**