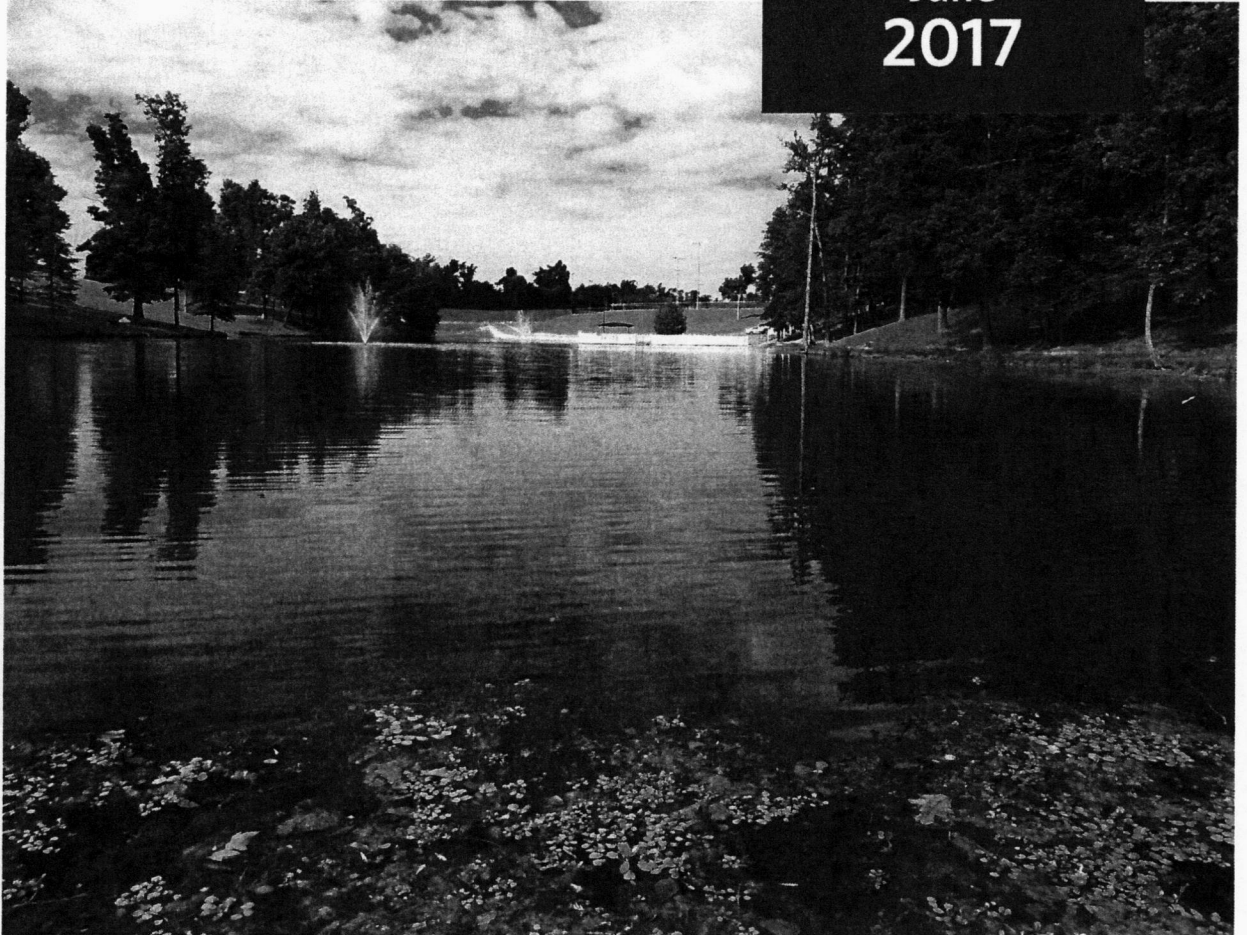


June
2017



Statement of Qualifications

Mike Miller Park Master Plan

Marshall County Fiscal Court



June 2, 2017

Mr. Dennis Foust
Marshall County Fiscal Court
1101 Main Street
Benton, KY 42025

**RE: Statement of Qualifications for
Engineering / Landscape Architecture / Planning Services
Mike Miller Park Master Plan Project**

Dear Mr. Foust and Committee Members:

There is more than one way to revitalize a community, but creating open spaces and public places that bring people together provides a solid foundation to build upon existing cultural assets. HDR is excited about the opportunity to fulfill the recreation needs of the citizens of Marshall County by providing professional services for the Mike Miller Park Master Plan project. HDR is one of the nation's leading professional consulting firms offering community planning, urban design, parks and recreation, landscape architecture and associated services. HDR's design team leverages extensive local engineering resources and a regional staff of landscape architecture to create cutting-edge, creative work that incorporates elements of environmental sustainability, functionality and a strong consideration for aesthetics. The HDR office in Paducah is the former firm of Florence & Hutcheson that HDR purchased in 2015. This office has been providing engineering services to clients in Marshall County and Western Kentucky for over 50 years.

We have taken great care to assemble the best team to provide the technical expertise needed to create a high quality park project for Marshall County. Our services include all aspects of the design process: site inventory / analysis, program development, public input, conceptual design, master planning, cost estimating, project phasing and construction services. We have a proven system for ensuring that our parks and trails are designed with functionality, aesthetics and sustainability in mind. HDR's attention to design detail leads to successful projects that stand the test of time and provide year-round opportunities for recreation.

Robert "Robby" Bryant has over 22 years of experience planning, designing and overseeing the construction of parks, recreation and trails projects throughout the Southeast and Midwest. Robby will work closely with our local Paducah office to assure each discipline is carefully coordinated and that project deliverables are submitted on time.

Thank you for the opportunity to submit our proposal to provide services for this project. Please do not hesitate to contact our office if you have any questions or require additional information.

Sincerely,

HDR ENGINEERING, INC.



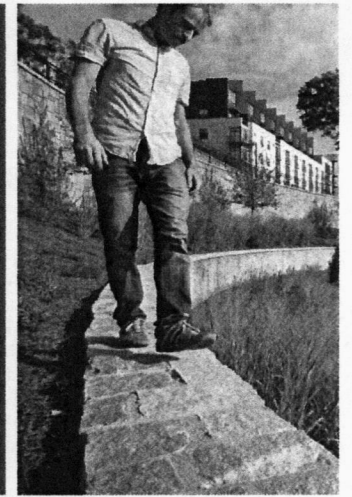
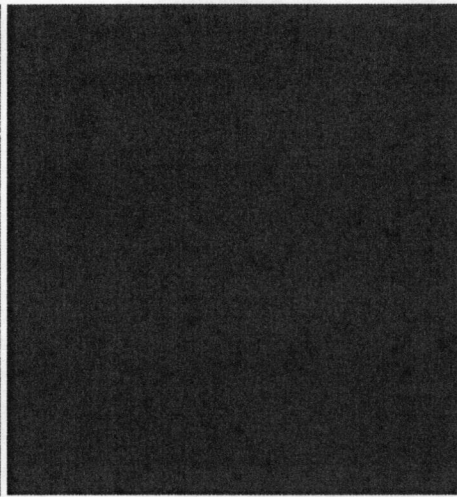
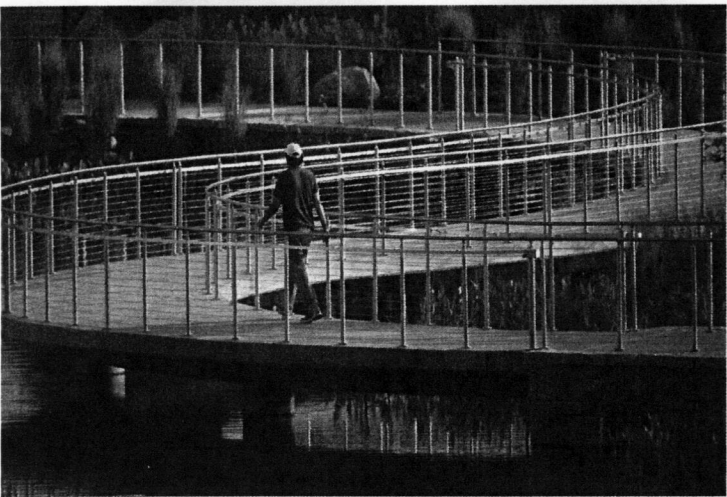
Scott Brown, PE
Project Manager

hdrinc.com

4645 Village Square Drive, Suite F, Paducah, KY 42001
T 270.444.9691 F 270.538.1599



01 Corporate & Staff Qualifications



01 Corporate & Staff Qualifications

1. Company Information

Since 1917, HDR has partnered with clients to shape communities and push the boundaries of what's possible. We believe that the way we work can add meaning and value to the world. That ideas inspire positive change. That coloring outside the lines can illuminate fresh perspectives. And that small details yield important realizations. Above all, we believe that collaboration is the best way forward.

We specialize in engineering, architecture, environmental and construction services. While we are most well-known for adding beauty and structure to communities through high performance buildings and smart infrastructure, we provide much more than that. We create an unshakable foundation for progress because our multidisciplinary teams also include scientists, economists, builders, analysts and artists.

HDR is consistently ranked among the top firms by leading industry publications, including Engineering News-Record and Architectural Record. Our responsive approach builds highly collaborative, cross-company teams that open new doors and solve tough problems for clients.

This is where great begins.

2. Qualifications of Proposed Staff

For your Mike Miller Park Master Plan project, we have assembled a lean team of creative landscape architects, designers and engineers to leverage the knowledge and experience of our technical resources to effectively meet your goals. The majority of our team members have a long history with our organization, creating a stable leadership core to guide long-term strategies and daily operations. We also have tremendous regional resources available to assist local staff, as requested, to meet your needs.

Project Manager Qualifications

Our team will be lead by **Scott Brown**. Scott is a registered professional engineer with over 10 years experience. He has a profound depth of knowledge and experience in design and sustainability principles and often leads public meetings and community workshops. Scott excels at coordinating multi-disciplinary teams on complex projects involving team members in various locations.

As Project Manager, Scott Brown will orchestrate the efforts of a stellar team of technical experts to make this a successful project.

Organization Chart

MARSHALL COUNTY FISCAL COURT

DENNIS FOUST

PROJECT MANAGER

Scott Brown, PE

KEY SERVICES

Landscape Architecture

Robert Bryant, PLA, AICP, LEED AP
BD+C, ENV SP

Quality Assurance / Quality Control

Shawn Washer, PE

Civil Engineering

Scott Brown, PE

Stormwater Modeling

Matt Brawley, PE



Scott Brown, PE
Project Manager

Scott, a Marshall County Kentucky native, grew up in Calvert City, is a graduate of Marshall County High School, and attended both Murray State University and the University of Louisville. He is a registered Professional Engineer in the State of Kentucky and holds both a Bachelor of Science in Civil Engineering and a Master of Engineering from the University of Louisville. His experience is heavily rooted in working with local governments, primarily on bridge projects and various public infrastructure. He has spent a large majority of his career working in the Louisville and Southern Indiana regions gaining vast professional experience, but has recently moved home to be a part of HDR Engineering. HDR Engineering currently has multiple projects and multiple clients within Marshall County and the western Kentucky region, as well as all across the country. Scott takes great pride in his work and finds the most rewarding projects to be those that enhance the area he has always called home.

FIRM
HDR - Paducah, KY

EDUCATION
MSCE, University of Louisville, 2007
BSCE, University of Louisville, 2006

REGISTRATION
Professional Engineer: KY

PROFESSIONAL MEMBERSHIPS
Kentucky Society of Professional Engineers

American Society of Professional Engineers

YEARS OF EXPERIENCE
10

RELEVANT EXPERIENCE

Marshall County Combustion Turbine Plant - Calvert City, Kentucky
Provided construction estimating, project management, construction inspection, and project administration for this project. This plant was constructed in order to meet excessive electricity demands during peak hours. It was designed to operate on either natural gas or fuel oil instead of coal, so that it may start and reach production capacity in as little as 12 minutes. It consists of 8 generating units with a summer net capability of 616 megawatts.

Murray State University Biology Building - Murray, Kentucky
Provided on-site representation, project management, estimating, construction administration, and inspection for the mechanical portion of this project. This was a new addition to the Murray State University campus, the first of two stages. The Biology Building was the first stage of construction, with the Chemistry Building being the second.

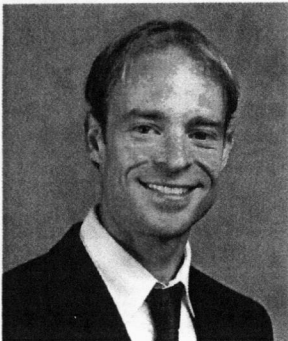
Fort Campbell Railroad Spur - Hopkinsville, Kentucky
Provided construction staking and layout as part of a field surveying crew. This new 3.4 mile railroad spur allowed Fort Campbell's Department of Defense rail line to connect to a CSX rail line. The spur enhanced the ability to perform a more organized and faster deployment of the 101st Airborne Division, and the spur allowed a bypass of the local town that previously suffered long delays due to railcars blocking roadways while being loaded or while the 250+ railcars simply passed through town.

Crawford County Bridge 123 - Milltown, Indiana
Provided engineering design, project management, project coordination, and construction inspection for this multiple span bridge project. The existing single lane multiple span bridge totaling 169' in length was considered structurally deficient, and a hazard as pedestrians utilized the same lane as the traffic that crossed it. The new bridge is a 140'

span by 28' wide truss bridge, with an additional 40' span by 28' wide beam span bridge, both of which carry a 5' wide sidewalk and a utility pipe chase. Preconstruction efforts included careful coordination between the counties, local utilities, permitting agencies, and the general public of Milltown. The bridge is now considered a major focal point of the town.

Harrison County Bridge 58 - Corydon, Indiana
Provided engineering design, project management, project coordination, construction inspection, and materials testing for this multiple span bridge project. The existing single lane 145' span truss bridge was considered functionally obsolete. The new bridge is a 150' span by 24' wide truss bridge, with an additional 35' span by 24' wide beam span bridge, both of which are on a 30° skew. Preconstruction efforts included careful coordination between the Indiana Department of Natural Resources, the Indiana Department of Environmental Management, the US Army Corps. of Engineers, Indiana Landmarks, and other related entities for permitting, historic reservation, and long-term maintenance of the existing bridge left in service for pedestrians. Also included in the project was the addition of a boat ramp and parking for the area to become a general recreational area for the County.

Indiana Railway Museum - French Lick, Indiana
Provided culvert and bridge inspections as part of a contract with The Indiana Railway Museum and Dubois County Railroad to create a Bridge Management Plan (BMP) for compliance with 49CFR Part 237, FRA Railroad Bridge Safety Standards effective September 13, 2010. The Indiana Railway Museum is a tourist railway that operates as The French Lick Scenic Railway operating passenger trains over twenty-five miles of track from French Lick to Jasper Indiana. It's most popular event is the Polar Express themed trip that operates weekly during the months of November and December. Annual ridership typically exceeds 80,000 passengers.



William R. Bryant, PLA, AICP, LEED AP BD+C ENV SP
Landscape Architecture

Robby is a professional landscape architect and certified planner with over 22 years experience specializing in site design, park planning and multi-use trail development. He has a profound depth of knowledge and experience in design and sustainability principles and often leads public meetings and community workshops. Robby excels at coordinating multi-disciplinary teams on complex projects involving team members in various locations. Robby is also a competitive cyclist and commutes via bicycle from his home in Decatur to Midtown Atlanta several days a week. As a bicycle commuter, Robby has a vested interest in designing projects that successfully integrate pedestrian and bicycle connections within public spaces.

FIRM
HDR - Georgia

EDUCATION
Bachelor of Landscape
Architecture, 1994,
Mississippi State University

REGISTRATIONS
Professional
Landscape Architect:
GA, KY, MO

American Institute of
Certified Planners

Leadership in Energy
and Environmental
Design (LEED)
Accredited Professional

ISI Envision
Sustainability Professional

YEARS OF EXPERIENCE
22 years

RELEVANT EXPERIENCE

**Louisville Loop - Pond Creek Corridor,
Louisville, Kentucky**
Lead trail designer responsible for
recommended alignment alternatives for a 15-
mile shared-use path and ecological restoration
project that traverses a variety of natural and
built environments in Southwestern Louisville.

**Louisville Loop - Fairdale / Floyds Fork
Corridor, Louisville, Kentucky**
Lead trail designer responsible for
recommended alignment alternatives
for a 14-mile shared-use path through
Southwestern Louisville.

**North Hall Community Park, Hall County,
Georgia**
Lead landscape architect for design
and permitting of Hall County's newest
community park. Scope elements include
baseball, track and field, soccer, mountain
bike trails, boardwalk, tennis facility and
community center.

**Atlanta BeltLine, Inc, Historic Fourth Ward
Park, Atlanta, Georgia**
Project manager for Atlanta BeltLine's first
built park. The award-winning Historic Fourth
Ward Park combines engineering and aesthetic
features in a public open space as an innovative
way to resolve CSO issues while enhancing
community life. This project is a harbinger for
development and revitalization, providing the
cornerstone for a sustainable, high density and
high quality urban transformation along with an
outstanding engineering solution for a serious
CSO problem.

Briscoe Park Phase 1, Snellville, Georgia
Project director for park improvements. Project
elements include lake restoration, new parking,
custom pedestrian bridges, native planting,
walking trails and play areas.

Briscoe Park Phase 2 & 2B, Snellville, Georgia
Project director for Phase 2 of park
improvements. Project elements included
eight soccer fields, new parking facilities,
two softball fields, a concession building and
fitness trail.

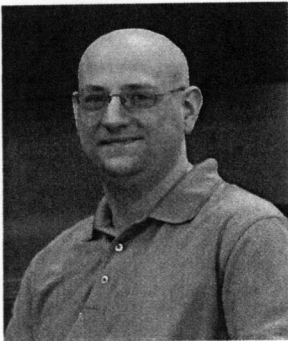
**Bicycle Pedestrian and Trail Plan, Sandy
Springs, Georgia**
Project Manager for a city-wide Bicycle,
Pedestrian and Trail Plan which is partially
funded through a federal transportation
grant. The goal of the plan is to provide a
safe, connected, and efficient transportation
system focusing on pedestrian and bicycle
infrastructure (including sidewalks, multi-use
trails, bicycle lanes, cycle tracks, midblock
crossings, and intersection enhancements).

Platte Landing Park, Parkville, Missouri
Project manager for the design of a 144-acre
community park located within the floodway of
the Missouri River.

Etowah River Park, Canton, Georgia
Project manager for the development of a
59-acre passive and active park along the
Etowah River.

East Hall Park, Phase 3, Hall County, Georgia
Project director for design and permitting of a
new Little League facility in East Hall Park.

Rogers Bridge Canoe Launch, Duluth, Georgia
Project Manager for design services for the
renovation of the existing river access facility at
Rogers Bridge Park in Duluth, GA.



Matt Brawley, PE

Civil / Site

Matt has over 13 years experience and is assigned to Paducah's Civil/Site Development Division. He has worked as both the Project Engineer and Project Manager on projects with responsibilities for oversight of the planning, design, and construction phases for municipal, commercial and industrial site development projects. Many of these projects have required unique or "out of the box" thinking. Matt has managed several downtown developments including the City of Paducah's Greenway Trail.

RELEVANT EXPERIENCE

City of Paducah, Greenway Trail, Phase II, McCracken County, Kentucky
Project Engineer for the design and construction of 6,000 lf of concrete walking trail in Paducah, KY along the floodwall through the KYTC LPA program. Additional project tasks included an at-grade crossing of KY 305 and an underpass at US 45. Responsibilities included establishing line and grade, typical section development, permitting, detail design, storm sewer design and construction cost estimation.

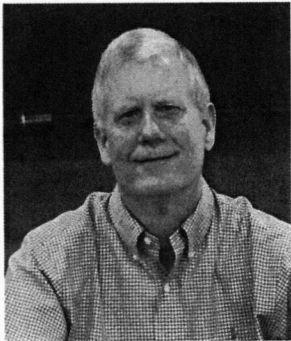
Calvert City Pavement Management Program - Calvert City, Kentucky
Project Engineer for the implementation of an updated Pavement Management Program, which included evaluations of the existing road network of approximately 36 miles. The evaluation included the performance of visual crack studies and pavement distress factors. MicroPAVER Version 6.1 was utilized to store inventory and distress data and was used to compute the PCI rating for each roadway segment. Using the results of the software a Five Year Capital Improvement Plan was completed which included a priority list for each year, recommended rehabilitation strategy, and projected budget.

FIRM
HDR - Paducah

EDUCATION
BS, Civil Engineering,
Southern Illinois University,
2003

REGISTRATIONS
Professional Engineer:
KY, IL

YEARS OF EXPERIENCE
13 years



Shawn Washer, PE

QA/QC

Shawn has 30 years of experience and he presently serves as a Vice President for HDR. He previously served as C.O.O. and as Geotechnical Manager for HDR.

His current responsibilities include management and performance of personnel, quality review of engineering work, monitoring of the schedule and budgets for projects, and client contacts. He also motivates, mentors and coaches the staff in Paducah, KY.

Shawn will be in charge of insuring that HDR's Quality Management System (QMS) is fully utilized throughout the contract. The phases of QMS include Project Initiation, Project Planning, Execution and Close-out.

VALUE TO THE FISCAL COURT

- ✓ Insure the correct resources are utilized for each segment of the project.
- ✓ Will ensure that the QMS process is followed throughout the life of the project.
- ✓ Will use his experience as a Project Principal to keep the project on schedule and budget.

FIRM
HDR - Paducah

EDUCATION
BS, Civil Engineering,
University of Kentucky,
1986

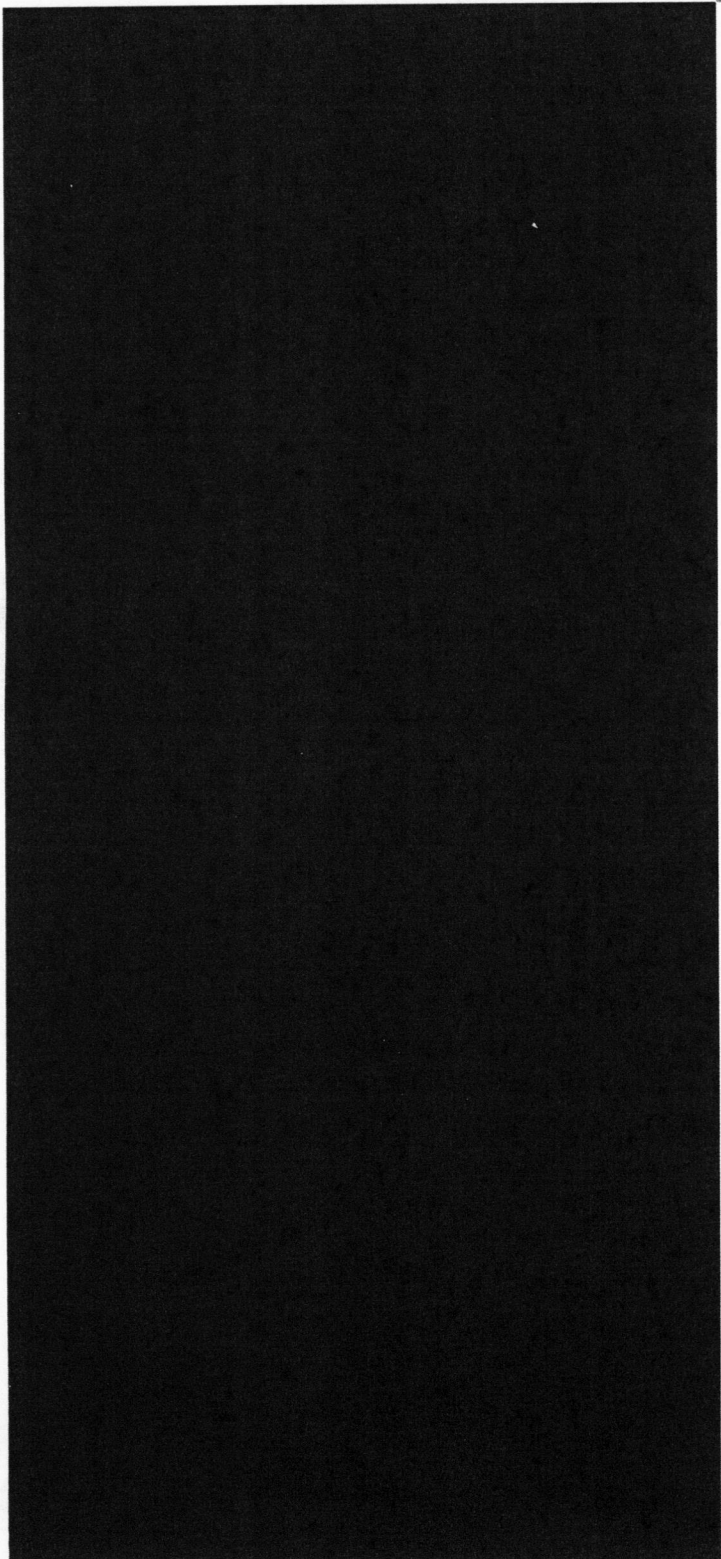
REGISTRATIONS
Professional Engineer:
KY, MO, OH, GA

YEARS OF EXPERIENCE
30 years



02

Past
Experience





Our designers create memorable spaces that reflect the character of the community.

02 Past Experience

1. Overview of HDR's Services

We are one of the nation's leading professional consulting firms offering community planning, urban design, parks and recreation, landscape architecture and associated services. Our employee-owners not only span the highly technical disciplines expected of a major architectural-engineering firm, but also provide specialized services in sustainable design, recreational planning, renewable energy, public outreach and economic decision analysis services.

In all we do, we strive to balance community and economic needs with conservation and sustainability in the natural and built environments. Our focus on integrating cultural traditions with the natural assets of a site, while recognizing economic constraints and opportunities, drives our commitment to

Creating Places Where People Want to BeSM.

Design Smarter.

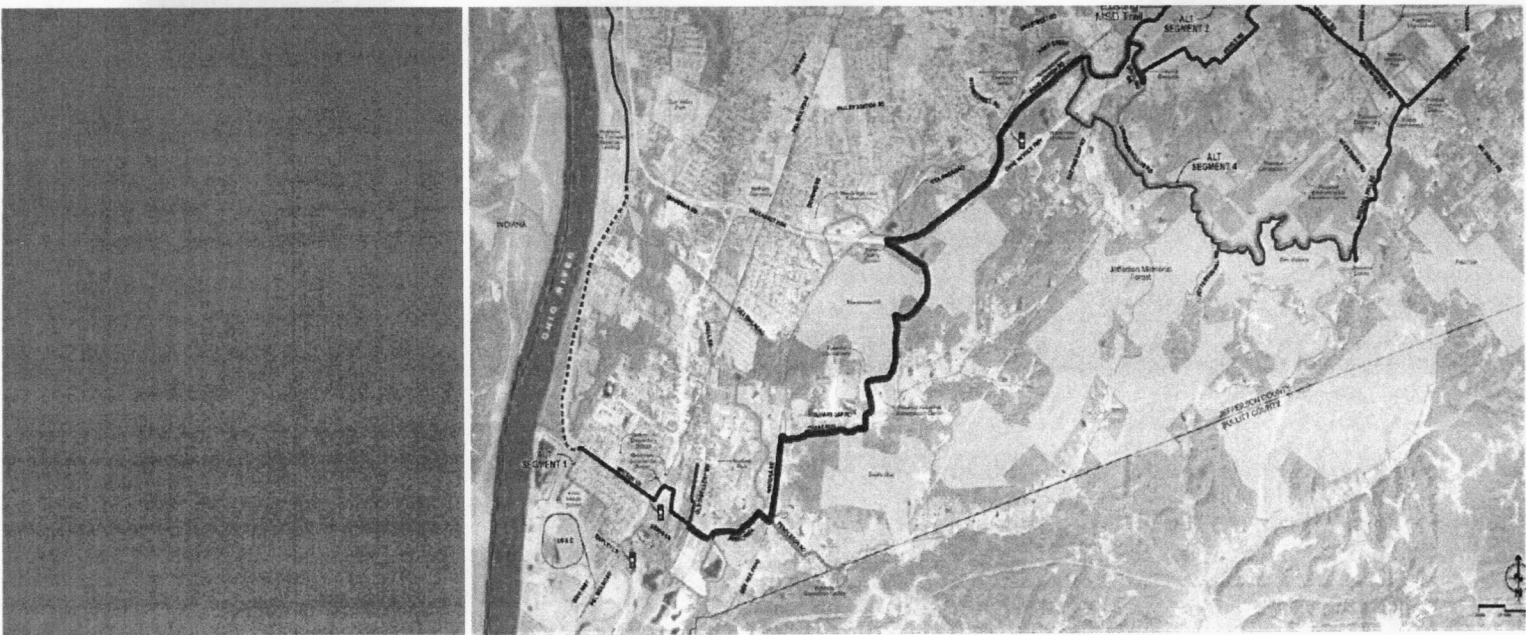
Our experts will strategically design this park as an expression of Marshall County's objectives, needs and priorities for leisure space, services and facilities.

2. Details of Reference Projects

When our landscape architects and designers design parks, open spaces and greenways, they keep several things in mind:

- Does it meet the functional needs of the users?
- Does it connect people with places?
- Is it diverse and aesthetically pleasing?
- Does it provide people with a positive image and experience?

Our designers combine the passion for scale, finish and balance with function, fit and harmony. In fact, they have created many award-winning natural spaces, such as the Historic Fourth Ward Park project in Atlanta.



REFERENCE PROJECT #1:
PROJECT DETAILS

Client Reference:
 Louisville Metro Parks
 John Swintosky, Landscape Architect
 PH: 502-456-8112
 John.swintosky@louisvilleky.gov

Services Provided:
 Trail Design
 Ecological Restoration Planning
 Public Participation
 Phased Implementation

Period of Performance:
 2010

Cost:
 \$25 M (Construction)

Staff Members Involved:
 Robert Bryant (Project Manager)
 Ryan Healan (Project Designer)
 Yoon Lee (Project Designer)

Pond Creek Corridor Shared Use Path & Ecological Restoration

Client: Louisville Metro Parks
 Louisville, Kentucky

HDR was selected to plan a 15-mile shared use- path in southwestern Louisville, Kentucky. This path segment is part of the ambitious Louisville Loop, a 100 mile bike/ pedestrian facility that will encircle the Louisville Metro area. A detailed, illustrative report was created following extensive investigation of the 18 square mile study and a series of public meetings. The report included a site analysis, recommended typical sections, alternatives analysis, and a final alignment recommendation.

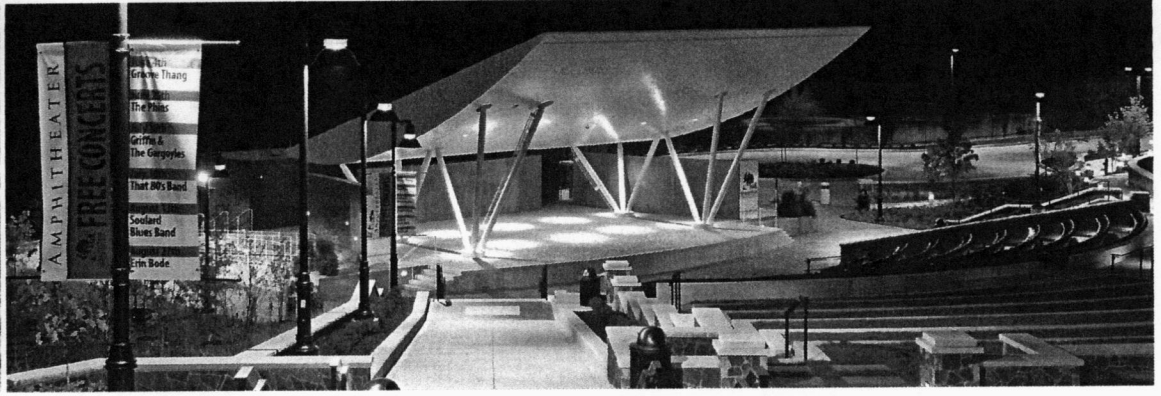
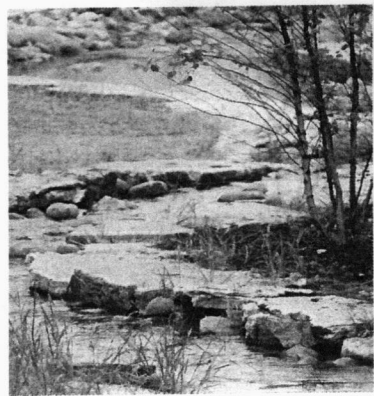
The project also included an ecological restoration plan and included identification of potential ecosystem restoration opportunities along Pond Creek; and initial determination of environmental, cultural, historical, and archaeological resources within the path and ecosystem restoration zones.

The project was funded by the Louisville District of USACE and Louisville Metro Parks.

CLIENT SATISFACTION

"The HDR team met all project schedules for the USACE and Louisville Metro Parks, and completed the scope of work within the strict budget. HDR demonstrated superior communications skills, not only in the finished document's text and graphics but also in managing this project with its complex web of stakeholder involvement."

-- John Swintosky, PLA, ASLA,
 Louisville Metro Parks



REFERENCE PROJECT #2: PROJECT DETAILS

Client Reference:
City of Chesterfield
Mike Geisel, Dir. of Planning and
Public Works
PH: 636-537-4769
mgeisel@chesterfield.mo.us

Services Provided:
Master Planning
Presentation Graphics
Public Participation
Design Development
Construction Documents
Cost Estimating
Implementation Phasing
Construction Administration

Period of Performance:
2009 (Master Plan)
2010 (Design)
2011 (Construction)

Cost:
\$1.7 M (Design)
\$16 M (Total Project Cost)

Staff Members Involved:
Robert Bryant (Project Manager)
David West (Sr. Landscape
Architect)
Ryan Healan (Landscape Architect)
Yoon Lee (Project Designer)

Awards & Recognition:
■ 2013 Georgia ASLA Merit Award

Chesterfield Central Park

Client: City of Chesterfield
Chesterfield, Missouri

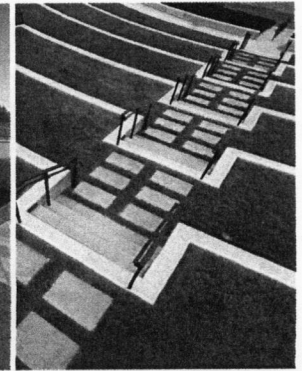
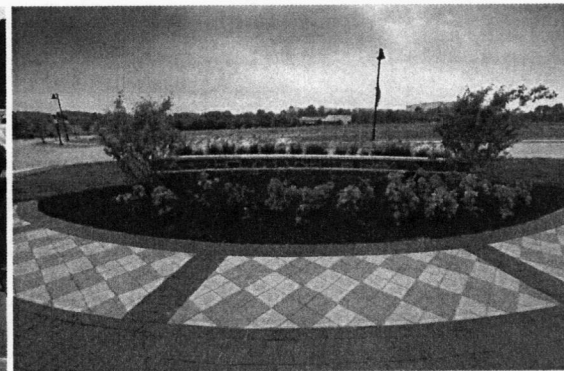
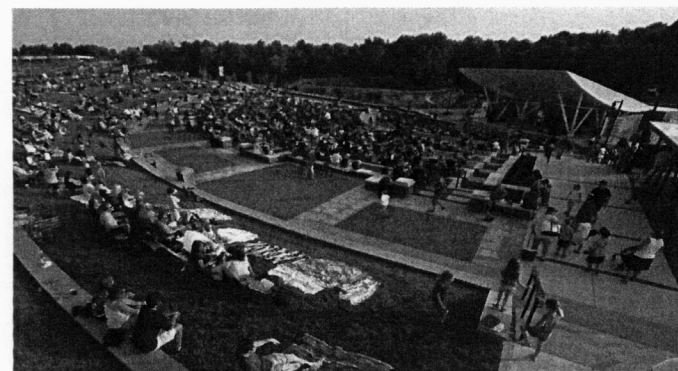
Central Park is a 38-acre passive park site surrounded by an existing YMCA, County Library and a mixture of proposed office/residential developments. HDR was hired to create a \$16 million park that physically connects various land uses, provides recreational opportunities to diverse user groups and demonstrates how stormwater management can be developed as a functional amenity. The park incorporates a variety of trails, including a stream walk which meanders between two re-circulating water channels through an old-growth forest with native understory planting.

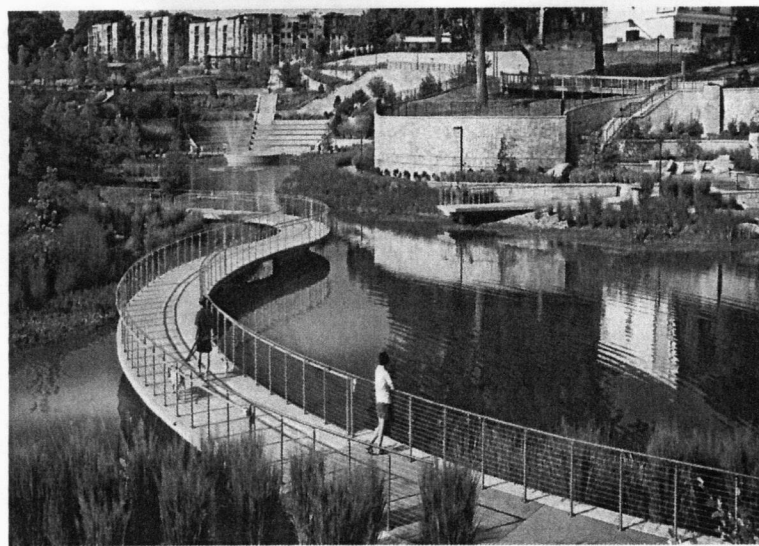
The central feature of the park is a 2,000 seat amphitheater overlooking a floodcontrol lake. The amphitheater includes a variety of seating opportunities from fixed stadium style seats to flat grassy terraces. The project's intricate construction detailing includes stone seat walls, brick and stone plaza spaces, and lush plantings. The park connects to a regional greenway that HDR designed along an adjacent riparian corridor with coordination from the City of Chesterfield and the U.S. Army Corps of Engineers. The trail is located along Chesterfield Creek and provides a critical link between Central Park, residential areas and the Missouri River.

CLIENT SATISFACTION

"The City of Chesterfield authorizes and supports the ASLA project award application for the Chesterfield Central Park Improvements. Given the extremely positive impact this project has had on our community, I hope it is judged as favorably as we have received it."

-- Mike Geisel, Dir. of Planning and
Public Works, City of Chesterfield





REFERENCE PROJECT #3: PROJECT DETAILS

Client Reference:
Atlanta BeltLine, Inc.
Kevin Burke, Sr. Land Arch.
Phone: 404.477.3637
kburke@atlbeltline.org

Services Provided:
Public Participation
Master Plan Development
Hydraulic Modeling
Construction Documents
Construction Administration

Period of Performance:
2008 (Design)
2009 - 2010 (Construction)

Cost:
1.8 M (Design)
\$23 M (Construction)

Staff Members Involved:
Robby Bryant (Project Manager)
Ryan Healan (Landscape Architect)
Yoon Lee (Designer)

- Awards & Recognition:**
- 2014 FIABCI Work Prix D'Excellence Awards
 - 2014 Redevelopment and Renewal Award
 - 2013 Urban Land Institute Award of Excellence, Project of the Year
 - 2013 Frontline Park Award (1 of 12 in country)
 - 2013 National Award for Smart Growth Achievement, US Environmental Protection Agency
 - 2012 Georgia ASLA Merit Award
 - 2012 ARC Development of Excellence Award
 - 2011 GA ACEC Engineering Award of Excellence (1 of 8)
 - 2011 National ACEC Honor Award (1 of 24 in country)
 - 2011 City of Atlanta Urban Design Commission Award of Excellence
 - 2009 GA ASLA Honor Award

Historic Fourth Ward Park

Client: Atlanta BeltLine, Inc.
Atlanta, Georgia

HDR was selected by Atlanta BeltLine, Inc. to provide park design and construction services for the Historic Fourth Ward Park. On a site described by The Atlanta Journal-Constitution as "a barren expanse of cracked concrete, weeds and towering trees surviving against a background of neglect," a five-acre parcel within the Atlanta's Historic Fourth Ward has undergone a dramatic transformation.

This stunning new park in one of the city's oldest neighborhoods did not begin with a vision to create something beautiful. It grew, rather, out of a need to address the very unglamorous urban problem of combined sewer overflows, or CSOs. The idea came from the people - rather than adding more costly, traditional sewer tunnels to address the problem, the blighted industrial lowland area has been transformed into a beautiful park surrounding a functional stormwater retention pond. Landscape architects led a team of engineers and a local artist to design Phase 1 of Historic Fourth Ward Park. This park represents the first constructed park of a park system for the Atlanta BeltLine. Parks are a component of the BeltLine project,

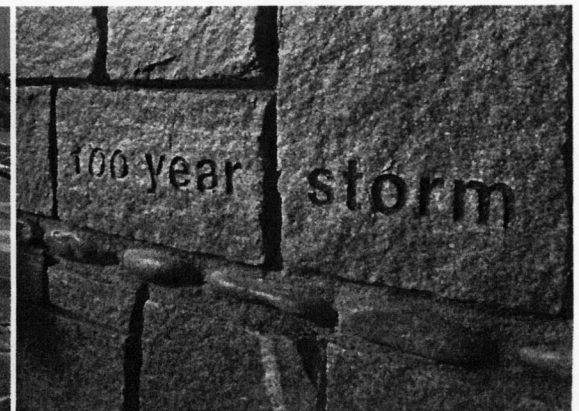
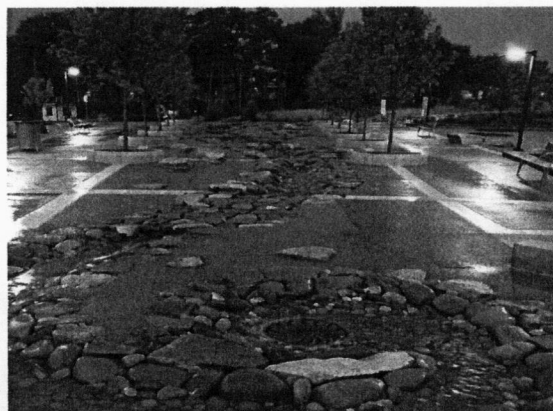
a regional 22-mile trail/ transit corridor that weaves through both commercial and residential centers in Atlanta.

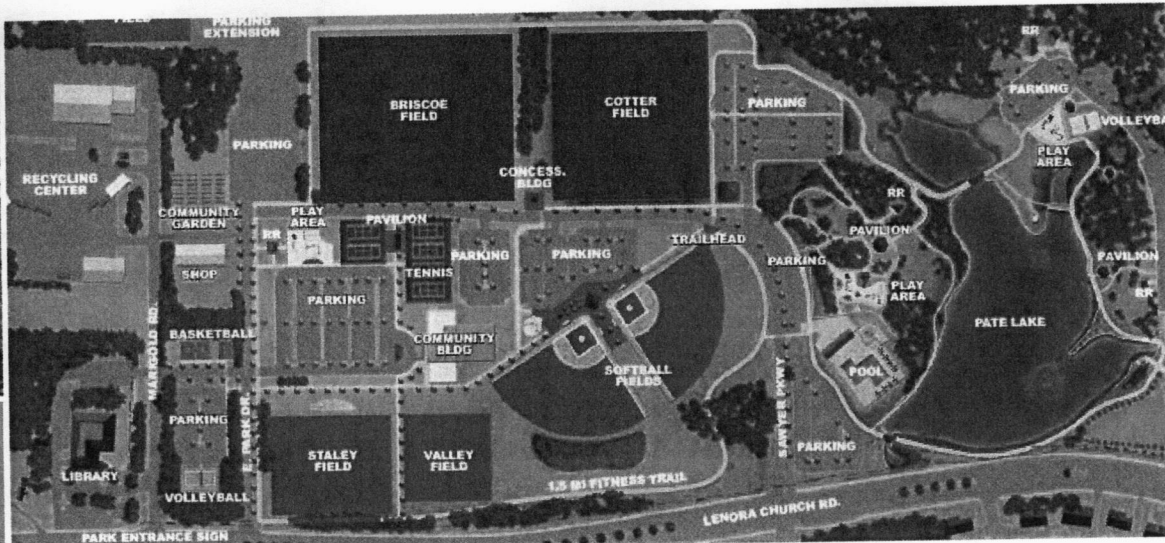
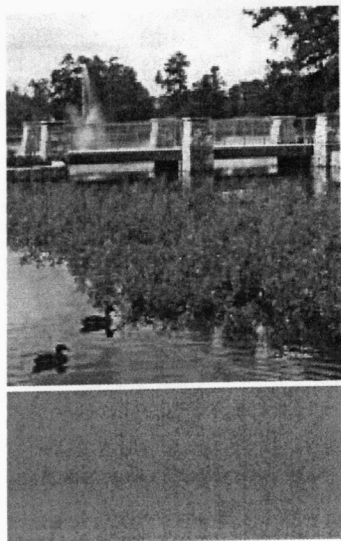
Design details and sculptural elements disguise engineering solutions by "celebrating" the water as it enters the park at four entry points. The stormwater pond serves as the centerpiece of the park, surrounded by walking trails, urban plazas, native plantings and an amphitheater. This project is a harbinger for development and revitalization, providing the cornerstone for a sustainable, high-density and highquality urban transformation along with an outstanding design solution for a serious CSO problem.

CLIENT SATISFACTION

"HDR's design of Historic Fourth Ward Park is outstanding and has been an integral component in being the catalyst for over \$400 million in private investment to date around the park."

-- Kevin Burke, Sr. Land. Arch.





REFERENCE PROJECT #4: PROJECT DETAILS

Client Reference:

City of Snellville
Lisa Platt, Dir. of Parks and Rec
PH: 770-985-3535
platt@snellville.org

Services Provided:

Master Planning
Program Development
Site Inventory/Analysis
Construction Documents
Construction Services

Period of Performance:

2008 (Master Plan)
2010 (Phase I Design)
2010 - 2011 (Construction)
2011 - 2012 (Phase II Design)
2012 (Construction)
2013 (Phase II B Design)

Cost:

\$1.8 M (Phase I)
\$1.4 M (Phase II)
\$2.5 M (Phase II B)

Staff Members Involved:

Robert Bryant (Project Manager)
Ryan Healan (Landscape Arch.)
David West (Landscape Arch.)
Ron Geiger (Civil Engineer)
Robert Baysden (Civil Engineer)
Michael Little (Civil Engineer)
Yoon Lee (Landscape Designer)

Briscoe Park

Client: City of Snellville

Snellville, Georgia

Since 2008, HDR has partnered with the City of Snellville to plan and design improvements to Briscoe Park. Initially, HDR was hired to create a master plan and provide construction documents for park improvements. The plan was necessary to improve vehicular and pedestrian circulation throughout the park. There were also erosion issues that were impacting the water quality of Pate Lake. The design process included meeting with City representatives and local residents to develop a program that was suitable for the City's current recreation needs. Three dimensional site planning solutions and accurate cost estimates were key to achieve a quality built project. The final approved plan was created through

a collaborative effort from the designers, local citizens and City officials. The plan included the following phased improvements:

- **Phase 1:** Phase 1 improvements included a comprehensive lake management plan, a one-mile walking path, a restroom building, and a passive recreation area with two new playgrounds and picnic facilities.
- **Phase 2:** Phase 2 improvements included eight multi-purpose fields and new parking facilities.
- **Phase 2B:** Phase 2B improvements included two softball fields, parking improvements, a concession building and fitness trail.

CLIENT SATISFACTION

"Robby Bryant was great. He was our point person, so just his willingness to communicate, to go above and beyond, to take on things that maybe initially we hadn't planned, for him to take on or to get involved in areas that we didn't originally plan for him to get involved in. He's very professional even in situations where the construction contractor was being difficult. He always kept very good control of the situation and made his points very well. I think they (HDR) felt the same priority with the project that we did as the owners, so that was nice."

— Cyndee Bonacci,
Former City of Snellville Parks and Recreation Director





03 Project Approach



03 Project Approach

The HDR Team is comprised of a strong team of landscape architects and engineers augmented by key regional experts who have previous experience designing facilities throughout the Southeast. Several of the team members have already fostered a great working relationship by working together on previous park and site development projects.

Our approach to this design will be to achieve a balance between the benefits and opportunities of the project, and the cost and efficiency of its development and operation. We will accomplish this by involving all stakeholders throughout the design process.

Our Team is committed to creating a first-class project within the budget. If selected for this contract, we promise to successfully deliver responsible and creative designs with exceptional client service!



Project Team

The HDR Engineering Paducah office will be the lead office for this project. Local engineering staff, some of whom reside in Marshall County, will be working directly with the Marshall County Fiscal Court, and the appointed contact representatives of the Marshall County Department of Parks. HDR is a very large national engineering firm with a strong local presence. The Paducah office will serve as the link to the large HDR national network of professional engineers, landscape architects, and various other professional staff with expertise in projects exactly like the Mike Miller Park Master Plan project. The Paducah office is currently involved with a variety of active projects in Marshall County including the new American Stave Company mill plant off of Highway 58/Mayfield Highway, working with the Marshall County-Calvert City Riverport Authority in developing the new riverport along the Tennessee River, working on various projects in Marshall County through the Kentucky Department of Transportation, and working with Calvert City on various paving and highway improvement projects. With that being said, HDR has a broad depth of knowledge of the local area and has assembled a team of local and national staff with ample experience on similar projects. HDR has nearly 10,000 employees in 200 offices including a staff of 40 in our Paducah office. We have the necessary availability to take on this project and complete it in a timely manner.

Approach to Design

HDR's design philosophy emphasizes functionality, aesthetics, and sustainability in the development of park facilities. The section below presents how each of these philosophical components (functionality, aesthetics, and sustainability) will be applied to the Mike Miller Park Master Plan project.

Functionality: Functionality is the cornerstone of our design philosophy; simply- if the park doesn't work, it will not be successful. A key component of finding success is partnering with park stakeholders to define success.

1. Park functionality begins with proper circulation and layout of facilities; this is especially critical in this project, where well planned connectivity between existing facilities and new facilities will help create a seamless, unified park experience. HDR will assess circulation routes to minimize vehicular/pedestrian conflicts, establish key pedestrian connections, and maximize park visitor comfort. HDR will also assess current maintenance routines and equipment routes to see if a more centralized location would benefit the park as part of the new expansion.
2. Park expansions require much more planning and thought than the development of an all new park facility. The location of existing facilities and utilities, the elevation of the existing facilities, and the character of the existing park are limiting factors that will influence the expansion of Mike Miller Park. Additionally, the timing and phasing of new construction should be completed in a manner to avoid impacting the programming of the park's existing youth league sports and other events.
3. The success of sports field design, amphitheater design, dog park design, or any park facility for that matter, is dependent upon full

knowledge of how the facility will be used. HDR will work closely with the Marshall County Department of Parks staff, the community, and local associations to design facilities that meet expectations.

4. HDR will pay special attention to how the site works in three dimensions. The site's rolling topography may create some challenges for the grading of new sports fields and other planned facilities, as well as the existing creeks that flow through the park. HDR's landscape architects and engineers will work together during the site grading design process to ensure these new features fit comfortably within the site and compliment one another. Our grading design goal is to create comfortable, ADA compliant spaces that minimize the need for walls, railing, and disturbance to tree preservation areas. We work hard to integrate ADA Accessibility into the fabric of the park as well as other critical design considerations such as erosion prevention to minimize maintenance while helping preserve the overall natural look and feel of the park.
5. Maintenance costs will be reduced by specifying the right materials in the appropriate ways; for example, decisions regarding pavement type & thickness, turf type, sports field soil amendments, playground surfacing, lighting systems and plantings all affect future maintenance cost. Maintenance concerns and issues are unique to each recreation department. We will work closely with the Marshall County Department of Parks to gather their input on what they have had success with and work together to design facilities that are easily maintained.

Aesthetics: Mike Miller Park’s aesthetics will be created by defining and detailing the various programmed spaces. Attention to aesthetics is what elevates a functional park to a signature destination.

1. We will draw upon the park’s existing character, as well as its geographical and cultural context to develop site specific details. Character will be given to spaces through detailing of materials. Active spaces, such as areas between softball fields and baseball fields, will require bolder, potentially more formal detailing. These spaces will require more plantings to humanize the space and break the expansiveness of the open fields. Passive areas such as playground and picnic areas can have more subtle detailing- these are places where people relax and can appreciate smaller details.
2. Careful selection of the plant palette will define, separate, and give character to space as well as create wildlife habitat. HDR’s landscape architects have extensive knowledge of Kentucky’s native plant communities and will draw heavily upon this knowledge base to place the right plants in the right places. In addition to native plants, the plant palette may include exotic (noninvasive) plants for areas within the more active spaces.
3. Site grading will be approached in both an artful and functional manner, as a joint landscape architectural and engineering effort. Landforms may be used to define or add drama to a space. The site will be graded as a whole, in order to avoid awkward transitions between existing and future phases of the park.

Sustainability: Mike Miller Park is preserved as closely to a natural state as possible - It is our responsibility to design in a sustainable manner so that this park continues to function with ample naturally occurring beauty and creating as little impact to the surrounding environment as possible.

1. HDR’s design will limit impacts to the health of local streams through proper stormwater management and erosion control. The proposed drainage improvements will utilize surface drainage features (such as bio-swales and rain gardens/bio-retention basins) as much as possible to meet stormwater quality and detention requirements. HDR’s landscape architects and engineers have designed many bio-retention systems, and understand the plants, soils, and drainage requirements that go into making them both functional and aesthetic. In addition to bio-retention systems, HDR’s landscape architects can also incorporate ponds or small lakes that are not only functional elements of the drainage plan, but also for recreational use whether it be for fishing or various other aquatic activities.
2. The park expansion area’s mature trees are a significant asset that should be preserved as much as possible. Natural areas expand the park’s recreational opportunities- offering areas for more passive recreation, such as walking trails, mountain biking, or even pet recreational facilities. Preservation areas will be identified during the master planning process, and will influence decisions regarding facility placement and grading.

Approach to the Plan Development Process

Taking the Mike Miller Park Master Plan project from master plan through construction will involve a complex series of planning, design, and engineering steps. The project team specializes in recreation design, and has successfully navigated this process for countless park and trail projects throughout the country. Rather than detail each step of the plan development process, the approach below summarizes key elements of the process.

Pre-Design

The success of a project, in the end, can often be predicted in its beginning; by the way it is planned and organized. Preliminary information must be gathered before the project can be fully planned and organized. Document research, site visits, and staff interviews will be conducted to gain a full understanding of design, permitting, schedule, and budget issues. Once a full understanding of project logistics is gained, HDR will generate a Management Plan to establish a detailed schedule and define activities and tasks in detail for each discipline. This plan is a working document that will be updated as the project evolves. HDR will conduct a kickoff meeting with the Mike Miller Park Manager and maintenance staff to review the management plan, and our initial analysis of the project.

Master Planning

The development of a park plan will require a close working relationship with the Marshall County Department of Parks staff, local sports league associations, sport enthusiast groups (i.e. Mountain Bike groups, Disc Golf groups), and the Community. The master planning process will include three steps:

1. Develop a park vision: an initial park vision will be developed from staff interviews and public meetings. Essentially a wishlist of new facilities and/or existing park modifications will be created and prioritized based upon popularity and results of public meeting input. Other items of consideration, such as utilization of locally produced materials, will also be included in the initial park vision. The final park vision will include as many of the prioritized park program elements, park facility locations, and recommendations on park aesthetics.
2. Development of 3 alternative conceptual plans: three conceptual plans, each with different facility layout will be developed in conjunction with the Marshall County Department of Parks staff. These plans will be presented at community meetings for public comments.

- 3. Development of a final plan and cost estimate: A final plan will be developed based upon comments regarding the 3 concept plans. The final plan may be a refinement of one option, or could be a combination of all three plans. An initial order of magnitude cost estimate will be developed to accompany the master plan. This cost estimate will be used to create a preliminary plan for phasing the implementation of the master plan.

Preliminary Design

Once a master plan is approved the design will be advanced to a 30% level; this preliminary design will include: a layout of roads and facilities drawn to exact dimensions, a preliminary grading plan, and preliminary details that set the aesthetic character of the site. The master plan cost estimate will be refined to match the preliminary design. The refinement of the cost estimate at each plan development milestone, will ensure that the project stays within budget.

Construction Documents

HDR will develop the construction plans in an artful and scientific manner, producing plans that are clear, concise, and easy to read. A stringent internal QA/QC process will be applied to the design drawings, cost estimates, and specifications at the 60% and 100% stages. Construction Documents will be submitted to the Marshall County Department of Parks for review at each of these stages. An estimate of maintenance tasks and costs will be provided with the final cost estimate. Upon completion, the plans will be sheparded through the permitting process. HDR will work closely with the Marshall County Department of Parks to develop a base bid and bid alternates that add flexibility to the process of selecting what gets constructed.

Bidding and Construction Observation

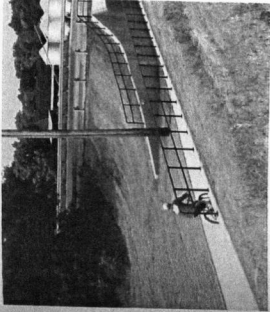
HDR will ensure that bidders fully understand the project scope by providing detailed construction documents, administering a well run pre-bid meeting, and issuing clear, concise addenda. Well informed bidders will lead to competitive bid prices and fewer change orders during construction. Following selection of a qualified contractor, a well run pre-construction meeting touching upon schedule, design intent, potential challenges, and organizational logistics will start the construction process correctly. During construction, proper documentation is vital- HDR will record and track all change orders, provide detailed field reports with project photos, review payment applications, and review all shop drawings for compliance with design. In an attempt to maximize our effectiveness supporting the construction effort, our Construction Administration services will be lead by Scott Brown, the Project Manager. The project manager knows the history of the project, understands the design, and will best be able to manage any construction issues. Architectural and engineering support will be available as necessary to address technical issues. As construction nears completion, the HDR Team will review the project to assist in determining the date at which the work is substantially complete, as well as what work remains to be completed, prior to the issuance of the certificate of substantial completion.

Meetings:

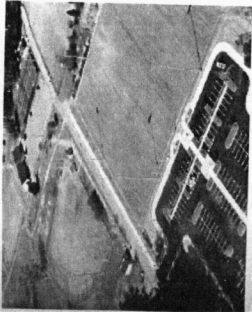
HDR will be utilizing the expertise of engineers who are well versed and highly regarded for their experience in projects exactly like the Mike Miller Park Master Plan project. The Paducah office will be the primary point of contact for the project and will have local staff working directly with the Marshall County Department of Parks, as well as organizing and conducting the various needed meetings. Such meetings include: Coordination Meetings, Public Meetings, Pre-bid Meeting, Bid Opening, Pre-construction Meeting, Construction Meetings/Site Inspections, and Project Close-Out.



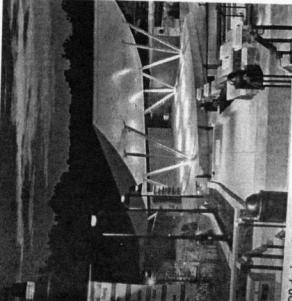
FUNCTIONALITY



For the Greenway Trail, HDR designed a pedestrian tunnel that provides safe passage under a busy state highway. This design concept restricted the primary pedestrian and vehicular conflict along the trail in Paducah, KY.



Phase 2 of Briscoe Park included the design of soccer/ lacrosse fields. The park was able to maintain functionality throughout construction of the project.



HDR designed Chesterfield Central Park to include a 1,500 seat amphitheater overlooking the Central Park Lake in the city of Chesterfield, MO.

Vehicular / Pedestrian Circulation

- Safe
- Efficient
- Aesthetic

Park Expansion

- Cohesive and Unified Design
- Will Not Interrupt Active Programming

Sportfield Design

- Collaborative and Detailed

Grading

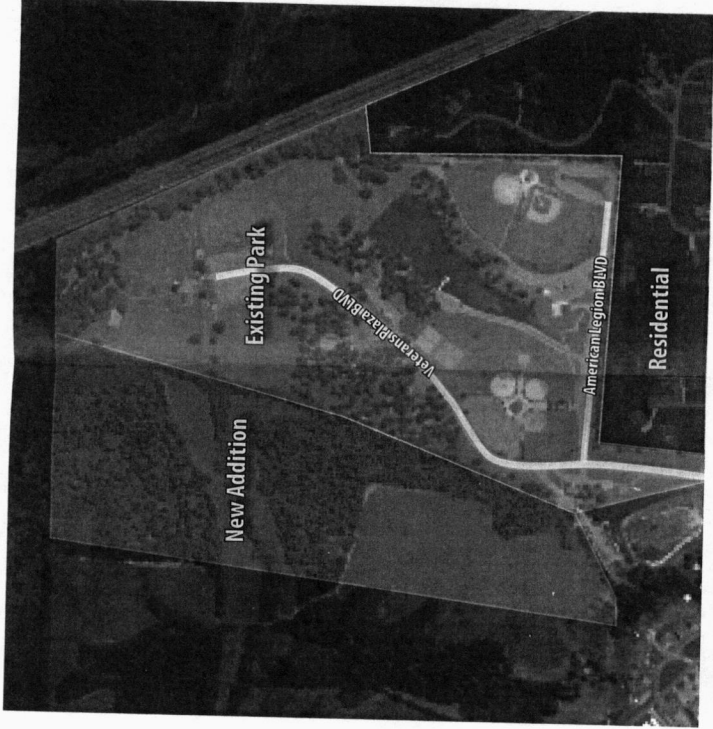
- ADA Compliant
- Cost Effective
- Comfortable Spaces

Maintainability

- Specify Right Materials in Appropriate Manner

Maintenance Facilities

- Ease of Access
- Central Location
- Screened from Public View



MIKE MILLER PARK DESIGN AND DEVELOPMENT

Several existing factors will influence the design and development of the new addition at Mike Miller Park. These conditions include: existing park facilities and infrastructure, roadways, residential neighbors and the site's natural attributes (topography, drainage, and mature trees). HDR's functional, aesthetic and sustainable approach ensures that these factors are appropriately addressed. The final result will be a signature park that exceeds the expectations of the community.

AESTHETICS

Character

- Existing Park
- Geographical Content
- Cultural Content

Plantings

- Plantings to Define Spaces

Grading

- Artful Approach

SUSTAINABILITY

Stormwater Management

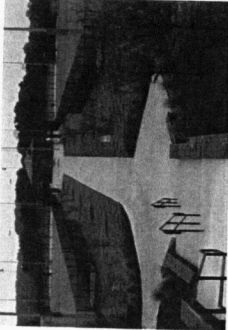
- Utilize Bio-retention Systems

Tree Canopy

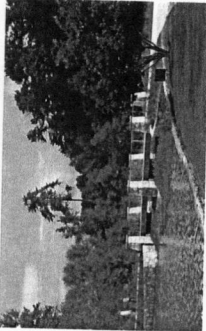
- Preserve Existing Trees

Materials

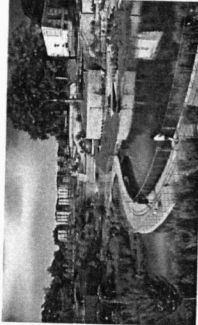
- Use Local Materials



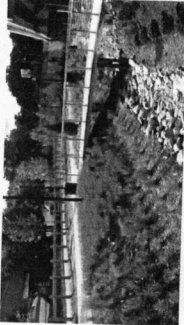
Detailed brick work and formal plantings guide users to the central plaza at Flawery Branch High School.



Possible areas within Briscoe Park take advantage of the site's natural resources.



HDR designed a functional and aesthetic stormwater pond for the Atlanta BeltLine's Historic Fourth Ward Park.



An on-site bioswale limits pollution and erosion to nearby streams along Chamblée, Georgia's multi-purpose trail.



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We practice increased use of sustainable
materials and reduction of material use.

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