

# Statement of Qualifications

For

## Land Development Engineering

2010



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## WHAT YOU NEED TO KNOW ABOUT...

<b>OUR COMPANY</b> .....	1
<b>OUR LAND DEVELOPMENT PRACTICE</b> .....	2
<b>Services</b> .....	2
<b>Zoning</b> .....	2
<b>Site Planning</b> .....	3
<b>Stormwater Management</b> .....	3
<b>Road Design</b> .....	3
<b>Erosion, Sedimentation and Pollution Control</b> ..	3
<b>OUR PEOPLE</b> .....	4
<b>Wayne E. Fowler, P.E., CFM</b> .....	4
<b>Mike L. Talley, P.E., CFM</b> .....	4
<b>OUR PROJECTS</b> .....	5
<b>OUR REFERENCES</b> .....	6
<b>OUR LOCATIONS</b> .....	7

# STATEMENT OF QUALIFICATIONS

## OUR COMPANY

**H & H Resources, Inc.** was founded in 2001 as a civil engineering consulting firm that assists clients in finding practical, feasible, and economical design and permitting solutions. In doing so, our goal is to deliver products and services that are on time, accurate, and within budget. **HHR** has project experience in a variety of site development projects for commercial clients.

Our principals, Eric Friedrich, P.E., CFM and Wayne Fowler, P.E., CFM, each have over 25 years of experience. The staff includes additional registered professional engineers plus technician and administrative support, bringing to the firm a variety of design experience and resources for accomplishing project tasks.

To illustrate our company's varied background, our engineers have worked as staff or consultants for the following public entities:

- U.S.D.A Natural Resources Conservation Service
- Texas Department of Transportation
- Georgia Department of Transportation
- Fort Bend County Toll Road Authority, Texas
- Texas Cities of Houston, Fort Worth, Bryan, Georgetown
- Georgia Cities of Albany, Douglas, and Hiawassee
- Georgia Counties: Union, Henry, Lee, Fulton
- Harris County, TX Flood Control District
- Texas A&M University's Texas Engineering Extension Service
- UT Austin Center for Lifelong Engineering Education
- University of Texas at Arlington

In an effort to serve our clients better, our engineers continue to update their skills by receiving continuing education in various software programs and engineering topics related to drainage floodplain management. As leaders in our profession, we provide instructors and training courses in the fields of hydrology, hydraulics, and erosion control. Our principals or employees have been involved in the development of drainage standards, policies, and procedures for local and state governments, and have published technical and research documents.

**HHR** is registered as a consulting engineering firm to practice in the states of Texas, Georgia, and North Carolina.

## OUR LAND DEVELOPMENT PRACTICE

**HHR** has the project experience to offer these services for site development projects:

- Zoning
  - Zoning Requests
  - Variances
  - Local Development Regulations, Permits
- Site Planning
  - Feasibility Studies
  - Parking Lot Design
  - Site and Pad Grading
  - Utilities
- Stormwater Management
  - Storm Sewer
  - Detention/Retention Pond Design
  - Drainage Reports
  - Floodplain Permitting
- Road Design
  - Alignment
  - Drainage
  - DOT Access Permit
- Erosion, Sedimentation and Pollution Control
  - E&S Plans, Details
  - NPDES Permit Compliance

Our site development engineering requires us to be knowledgeable about federal, state, and local regulations. We have coordinated with local development offices, state environmental and transportation agencies, the U.S. Army Corps of Engineers, utility companies, and the Federal Emergency Management Agency in permitting land development projects.

Our engineers have used a variety of design software, aids, and procedures, including:

- EPA-SWMM
- NRCS TR-55
- Geopak Drainage
- PowerCivil
- Georgia Stormwater Management Manual
- Texas DOT Hydraulic Design Manual
- AASHTO Highway Geometry standards
- FEMA Flood Insurance Studies (FIS), Flood Insurance Rate Maps (FIRM)

### Zoning

**HHR** can assist a developer in assessing the existing and proposed zoning of potential project locations. We can assist in having zoning changed or in obtaining zoning variances. Our experience includes working closely with local government officials to prepare designs which comply with all local requirements. We have experience presenting designs to zoning boards and city councils for approval.

### Site Planning

If a developer needs to know the cost, regulatory, or design issues related to the proposed project, HHR can prepare a feasibility study. We have experience designing sites in all terrains, from steep mountain regions to flat coastal plains. Each type of terrain presents its own challenges which require unique designs to accommodate the developer's requirements for the site. We have designed land development sites in large cities, small towns, and developing rural areas. Our designs strive to balance cost, constructability and functionality.

Our site designs have included parking lot layout, site grading, onsite wastewater treatment, municipal sewer and water extensions, and coordination with utility companies. We have prepared earthwork and other quantity estimates, opinions of probable cost, and bid documents. An important feature of our site design experience is coordinating with the client's architect to achieve an overall project that meets the client's design objectives.

### Stormwater Management

Local requirements for stormwater management often control the design and layout of a proposed site. Our engineers have experience working with local officials to follow local stormwater management requirements. Water quality concerns have become a major component in stormwater management designs and detention/retention ponds and pipe networks must function to meet the water quality and runoff requirements of a site.

Some sites require compliance with FEMA's National Flood Insurance Program (NFIP) and local floodplain ordinances. As Certified Floodplain Managers, we have extensive experience with floodplain engineering related to the NFIP and can provide engineering solutions related to floodplain mitigation and flood map revisions/amendments. Drainage projects have also required HHR to coordinate with the U.S. Army Corps of Engineers and state environmental regulations.

### Road Design

Industrial, commercial, and particularly residential developments have the potential to require design of roads. HHR's road design experience includes highway geometry that meets AASHTO standards, drainage design for bridges and culverts, stormwater management, DOT access permits, and related pavement marking, signage, and traffic control using MUTCD.

### Erosion, Sedimentation and Pollution Control

HHR understands and applies the erosion, sedimentation and pollution control requirements for construction projects. Members of our staff are certified instructors for erosion control licenses in the state of Georgia, and teach erosion control to TxDOT employees. We have completed SW3P plans in Texas, and ESPCC designs in Georgia and North Carolina. In addition to working with local and state regulations, our engineers have experience with the National Pollutant Discharge Elimination System (NPDES) stormwater permitting program.

## OUR PEOPLE

At **HHR**, we believe our staff is second to none. Our employees are selected based on their exceptional qualifications in our areas of expertise. We have engineers, technicians, and administrative staff that work together to meet the needs of our clients. The following are our key employees that lead our efforts in land development.

### **Wayne E. Fowler, P.E., CFM**

Vice President

B.S. Engineering, Auburn University, 1983

Post-graduate studies, Auburn University, 1984

Mr. Fowler is a principal in the firm. He has been involved with land development since 1984. He is experienced in project management, planning, design, and construction phase services. His projects have included site layout, grading and drainage, utility design and coordination with various public entities and regulatory agencies. He has served as County Engineer, and has been involved with ordinance revisions, plan review, and other areas of county operations, which gives him special insight into the permitting process. Mr. Fowler is a registered professional engineer in Georgia, Texas, North Carolina, and Alabama and has completed land development projects in all of these states. He has experience in a variety of public and private sector civil engineering projects, in addition to land development. In 2001, he founded a consulting firm that later merged with **H & H Resources, Inc.** Prior employment experience includes USDA-NRCS; engineering consulting firms in TX, GA, and AL; and a 2-yr international assignment in water resource development.

Mr. Fowler is a member of the American Society of Civil Engineers (ASCE), Association of State Floodplain Managers (ASFPM), and Georgia Association of Floodplain Management (GAFM). He is an instructor in Georgia's Erosion Control Certification Program.

### **Mike L. Talley, P.E., CFM**

Project Manager

B.S. Civil Engineering, Georgia Institute of Technology, 1998

Mr. Talley manages the Albany, GA branch office. He is experienced in water, sewer, stormwater, and transportation projects. On the engineering staff of Albany, GA, he was involved with plan review, NPDES implementation, and other areas of City planning and operations. He is a registered professional engineer in Georgia and Texas.

He has worked on a wide range of engineering projects, including site development, drainage, water supply, sanitary sewer, and transportation. His drainage engineering experience includes storm sewer improvements, floodplain studies, storm water management, and third party review of reports/designs. Project types include commercial site development, residential, transportation (road and rail), and municipal (water and sewer design). He has participated in developing city policies and standards. Previous employment includes: Norfolk Southern Railroad in Atlanta, Georgia; Stevenson & Palmer Engineering, in Albany, Georgia; and the City of Albany Georgia.

Mr. Talley is a member of the Georgia Association of Floodplain Management. He has recently completed continuing education in NPDES Phase II, XP-SWMM, Erosion and Sediment Control Design, and Transportation Safety Audits. He has experience with HEC-2, HEC-RAS, GEO-RAS, HEC-HMS, XP-SWMM, GIS (Arcmap, Spatial Analyst, 3D analyst), Geopak, PowerCivil.

## OUR PROJECTS

Our land development projects vary in size and scope. The following is a sample listing of projects that demonstrate some of the various types of services we can provide for land development projects.

- **Union County Farmer's Market, Blairsville, GA (2010);** Site, grading, drainage, utility, erosion control design. Coordinate with architect. NPDES compliance. Local permitting.
- **Reeves Construction, Perry, GA (2009);** Site and grading design for asphalt plant. Hydrology report. Local permitting.
- **Grace Presbyterian Church, Blairsville, GA (2008);** Site and parking lot layout, pavement design, grading, drainage, erosion and sediment control design, underground stormwater detention. Local permitting.
- **Appalachian Community Bank, Murphy, NC (2008);** Site and parking lot layout, grading, drainage, erosion and sediment control design. Coordinate with geotechnical engineer, architect. Local permitting.
- **Young Harris Village, Young Harris, GA (2008);** Water and sewer extensions to this 20-lot residential subdivision. Pressure and flow testing, design, permitting. Sewer design included two lift stations. Coordinate with city and state agencies.
- **Fatz Café, Blairsville, GA (2007);** Site design and drainage impact analysis, storm drain design.
- **Foggy Bottom S/D, Union County, GA (2007);** Community water system design, including wells, pumps, storage, distribution. Local and state permitting.
- **The Arbor S/D, Union County, GA (2006);** Road drainage design, lake hydrology and hydraulics.
- **Best Western Hotel, Hiawassee, GA (2005);** Site, parking, grading, drainage, sanitary sewer design extension. Local and state permitting.
- **Rivendell S/D, Towns County, GA (2005);** Sewer collection system, onsite wastewater management system design. Local permitting.
- **Cadence Bank, Blairsville, GA (2002);** Site and parking layout, grading, drainage design. Coordinate with architect. Local permitting.
- **First Baptist Church, Blairsville, GA (2002);** Analysis of development impact on GDOT drainage improvements at A.P.D. 515. Coordination with GDOT.

## OUR REFERENCES

Bob Alexander, P.E., *Lee County*  
County Engineer  
104 Leslie Highway  
P.O. Box 889  
Leesburg, GA 31763  
229-759-6000

Lamar Paris, *Union County*  
Commissioner  
114 Courthouse Street  
Blairsville, GA 30512  
706-439-6000

Silas Allen, *Cherokee County*  
Building Inspection Manager  
59 Hiwassee St.  
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Murphy, NC 28906  
828-837-6730

Marc Buttrill, *Grace Presbyterian*  
8500 Soapstone Creek Circle  
Hiwassee, GA 30546  
706-896-2601

Paul Kaspar, P.E., *City of Bryan*  
City Engineer  
300 South Texas Avenue  
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Jim Conley, *City of Blairsville*  
Mayor  
P.O. Box 307  
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Rick Stancil, *City of Hiwassee*  
City Attorney/Manager  
229 Chatuge Way  
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Rod Hutchinson, RLS  
*City of Albany*  
Civil Engineering Superintendent  
P.O. Box 447  
Albany, GA 31702  
229-883-6955

Mac Wood, *City of East Ellijay*  
107 Oak St  
East Ellijay, GA 30540  
706-276-3111

Jim Smith, *SafEnvirons*  
412 W. Lamar Street  
Americus, GA 31709  
229-924-9390

## **OUR LOCATIONS**

### **Texas Offices**

#### **Houston Area (832) 220-1205**

15840 FM 529, Suite 211. Houston, TX 77095  
625 Park West Dr., Sugar Land, Texas 77478

#### **Fort Worth Area (817) 915-3155**

P.O. Box 2705, Burleson, TX 76097-2705

### **Georgia Offices**

#### **North Georgia (706) 835-1311**

108 Blue Ridge Hwy Ste. #8, P.O. Box 1430, Blairsville, GA 30514

#### **South Georgia (229) 869-4241**

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