

*Our People Make the Difference.*

*Our business is about building solid relationships  
and  
developing sound civil engineering solutions.*

For nearly 70 years, the engineers of McGoodwin, Williams & Yates, Inc. have served Arkansas communities with a commitment to personalized service for civil engineering to fit most any municipal infrastructure need. Through our expertise, experience, and reputation for service excellence, we make it a point to stand side-by-side with our clients from concept to completion to build stronger, more vibrant communities.

Our team is comprised of individuals who are committed to providing each client with the same exemplary innovation, attention and dedication to detail no matter how large or small the project. With very little staff turnover, MWY offers you a solid team that works well together to provide you with cutting edge experience and a remarkable historical knowledge of the municipalities our firm has served.

Our résumés are but a snapshot of the expertise that only years of experience can provide and that our team offers.



The MWY team is committed to meeting every milestone while providing deliverables of the highest quality. Included within our SOQ, is detailed data regarding our firm's record of performance in terms of cost control and meeting deadlines.

References are listed on the more detailed project pages located within the tabbed sections.

One-page resumes are included in our response. Below is a brief summary of our executive staff.

- **Brad Hammond, P.E., president**, has 23 years of experience. He provides project management expertise as well as extensive knowledge of master planning and municipal infrastructure design of all aspects.
- **Carl Yates, P.E., chief executive officer**, is known statewide and nationally for his tireless efforts in the area of water quality. He has helped develop guidelines that have had monumental impact of the care and protection of our state's water resources.
- **Jim Ulmer, P.E. & chief operating officer**, most often presides as project advisor and provides quality control. Mr. Ulmer has 45 years of experience.
- **Jeff Richards, P.E., vice-president and director of engineering**, brings 37 years of experience, specializing in water and wastewater facilities, having served as project manager for numerous projects as well as senior advisor to our engineering staff on a multitude of water system projects.
- **Lane Crider, P.E., vice-president**, has 23 years of experience, among which was serving as project manager for the 10-MGD Fayetteville West Side Wastewater Treatment Plant.
- **David Powers, vice-president/architecture**, has been with MWY for 26 years of his 49 years as an architect. He is currently working with Fayetteville staff on the expansion of the Fayetteville Solid Waste Recycling Facility. He is joined by MWY engineer Zane Lewis, P.E. who is providing civil site design and is serving as the LEED representative for the project.

In addition to the value provided by our experience with past projects, our team is committed to a service-based approach that begins and ends with communication. Using this approach, our engineers work closely with city staff as key aspect of project success.

### **LEED ACCREDITATION**

*Three MWY engineers and one MWY architect have LEED Accreditation and have implemented this training on a variety of projects, including LEED Gold rated Beaver Water District Administration Center site and structure; as well as the current expansion of the Fayetteville Solid Waste Recycling Facility that is on track for a minimum LEED Silver rating.*

### **LICENSED WATER TREATMENT & DISTRIBUTION OPERATORS**

*Two members of the MWY staff maintain both Water Treatment Operator Grade IV Licensure and Water Distribution Operator Grade IV Licensure.*

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Fayetteville, AR 72703  
479-443-3404  
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**L. Carl Yates, P.E., BCEE, FACEC**  
Chief Executive Officer  
Arkansas, P.E. No. 1839  
Oklahoma and Missouri

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*57 Years of Experience*

**EDUCATION**

*B. S. Civil Engineering, University of Arkansas, 1958*



**DUTIES, RESPONSIBILITIES, EXPERIENCE SUMMARY**

Of particular significance are projects for the Beaver Water District. Mr. Yates has worked with the District since its inception in the late 1950s and provided counsel and guidance during the formative years of the District.

As well, he provided his considerable expertise for the 10 MGD West-Side Wastewater Treatment Plant to serve the city of Fayetteville's customers located in the Illinois River Basin.

Mr. Yates is a member of various professional organizations. Several of these memberships are very longstanding, with Mr. Yates having held a number of offices. Particular energy has been devoted to the American Council of Engineering Companies. He was president of the state organization in 1983-84 and continues to be active on both the state and national levels, and he served two two-year terms as National Director and on several committees. He served for many years on the ACEC/EPA Region 6 Liaison Committee to advise the EPA on developing policies.

Mr. Yates has been closely involved with the EPA Construction Grants Program (early 1970s to 1990s) and subsequent Revolving Loan Fund Program since their predecessor program was established in 1957, having completed numerous projects with federal assistance. He is intimately acquainted with the operation of the program and, because of his expertise, was invited in 1980 by the U. S. Environmental Protection Agency to participate in a national workshop concerning development of a strategy for municipal wastewater treatment.

Beginning in 1976, Mr. Yates served the state of Arkansas as a member of the State Policy Advisory Committee for Water Quality Management and Planning. As a member of this committee, and as chairman of the Water Quality Standards Subcommittee, he provided assistance to the state in the development of the initial water quality management plan for Arkansas.

In 1981, Mr. Yates testified on behalf of the American Consulting Engineers Council (now American Council of Engineering Companies) before the Water Resources Subcommittee of the U. S. House Public Works and Transportation Committee concerning revisions to the Clean Water Act.

Mr. Yates continues to be very concerned with environmental problems and works closely with national organizations and congressional delegates to study the issues and aid in drafting legislation to provide the maximum benefit to client cities and all citizens. In addition, he stays abreast of the latest technology in the water and wastewater treatment fields. As a part of this effort, he has in recent years been active in the International Ozone Association. A water plant designed by the firm for the city of Clarksville, Arkansas, incorporates ozone and granular activated carbon as a part of the treatment process. This is the first plant in Arkansas and one of the first in the United States to jointly use these technologies.



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**Brad B. Hammond, P.E.**

**MWY President**

Registered Professional Engineer – Arkansas P.E. No. 9240  
Oklahoma P.E. No. 20261, Missouri P.E. No. 2001029632

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**23 Years of Experience • MWY team member since 1992**

**EDUCATION**

*Master of Business Administration, University of Arkansas, 1994*

*Bachelor of Science in Civil Engineering, Cum Laude, University of Arkansas, 1992*



**DUTIES, RESPONSIBILITIES, EXPERIENCE SUMMARY**

As president of the firm, he coordinates personnel and acts as the chief financial officer. The scope of his design expertise includes civil site design, street design, studies and master planning. As well, he is highly experienced in the design of sanitary sewer systems, hydrology and drainage systems, hydraulics, water distribution and storage systems, structures (including timber, steel, masonry, and reinforced concrete), and foundations. Examples of recent major projects are described as follows:

**Site Development**

Project Manager - Site development, on an on-going basis as needed, for over 15 new schools in Springdale, Arkansas  
Project Engineer (civil, site) - Washington County Jail Site improvements  
Project Engineer (civil) - Washington County Jail Sewer Improvements  
Project Engineer (structural, civil) – Washington County Sheriff Department Tactical Training Facility  
Assistant Project Manager - MWY's role in the design of Har-Ber Meadows in Springdale, Arkansas  
Project Manager – MWY currently serves as the "On-Call" civil engineering firm for the University of Arkansas

**Master Planning**

QA/QC - Biosolids Disposal Study, City Corporation, Russellville, Arkansas  
Project Manager - Comprehensive Water and Sewer Master Plan for the city of Springdale  
Project Manager - Fitzgerald Mountain Tank Farm Study and Improvements  
Project Manager - All Studies and Design for the Carroll-Boone Water System, including a recent Master Plan Update  
Project Manager - Clarksville Light and Water Company Master Planning

**Municipal Streets and Transportation**

Project Manager – Mr. Hammond serves as the project manager for the majority of street and transportation projects completed by MWY. As such, his breadth of experience encompasses street and drainage design, utilities relocation, bridges and large scale master street planning. Recent projects include:

- **Monte Ne Road Realignment** involving roundabout design and realigning/improving approximately 4,000 linear feet (LF) of Monte Ne Road into a boulevard parkway.
- **Bellview Road** includes widening 6,800 linear feet of Bellview Road from Pleasant Grove Road south to the city limits and widening 1,300 linear feet of Garrett Road from Bellview Road to 37th Street. The design includes mitigation of frequent road flooding caused by numerous point discharges.
- **Pauline Whitaker Parkway** involved one of the largest roundabout intersections in the state at the time of construction. The parkway connects Champions Drive and Pinnacle Hills Parkway to the new Perry Road Interchange on I-49.

**Water & Wastewater Facilities**

Project Manager - \$9 Million Clarksville Water Treatment Facility Expansion  
Design Engineer - Structural design for numerous wastewater treatment plants in Arkansas

**Lift Stations and Collection Systems**

Project Manager - Spring Creek Lift Station; Benton Farm Lift Station; Robinson Lane Lift Station Improvements, Springdale, AR  
Project Manager - Phase I & II Northside Sewer Facilities Improvements, Springdale, Arkansas  
Project Engineer - Jamestown Sewer and Lift Station, Clarksville, Arkansas

**Water Distribution, Booster Stations and Storage Systems**

Project Manager - Logan County/Clarksville Water Transmission Line Extension  
Project Manager - Fayetteville, Arkansas 24-inch water main replacement project and PER  
Project Engineer - \$1 million Green-Berry Booster Station serving the Carroll-Boone Water District  
Project Manager - \$15 million Carroll-Boone Water Transmission Line





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Fayetteville, AR 72703  
479-443-3404  
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**James C. Ulmer, P.E., BCEE**  
**Chief Operating Officer**  
Arkansas P.E. No. 4691



**45 Years of Experience • MWY team member since 1970**

**EDUCATION**

*B. S. Civil Engineering, 1974, University of Arkansas*

**DUTIES, RESPONSIBILITIES, EXPERIENCE SUMMARY**

Mr. Ulmer serves as the firm's prime contact person with the Arkansas Department of Environmental Quality and Region VI EPA. As a result of his effective relationship with these regulatory agencies, he has also assisted other project engineers and managers in the management of numerous other projects that are not listed here. His expertise in the areas of permitting, water and sewer studies and Revolving Loan Funds is very often a vital component in most all MWY projects.

**WASTEWATER SYSTEM EXAMPLE PROJECTS**

Mr. Ulmer's experience relative to the water treatment and supply field includes 26 water and/or sewer rate studies, financing alternatives and contact with the Corps of Engineers and other state and federal regulatory agencies. He has managed extensive water distribution system hydraulic modeling and water master planning for the cities of Batesville, Bentonville, Fayetteville, Jonesboro, Rogers and Springdale. Projects of note include:

(Current Project) Principal-in-Charge - Batesville Water and Wastewater System Improvements. The work in Batesville has included the master planning for both water and wastewater, and involved the expansion of the city's water treatment plant to a capacity of 12 MGD.

Ulmer served as project manager for the Water Master Plan Study for the city of Bentonville, Arkansas.

- *This project received the American Council of Engineering Companies of Arkansas Engineering Excellence Grand Conceptor Award for 2010-2011.*

Project Manager – Revision of the Wastewater Facilities Plan for the city of Fayetteville, Arkansas, including: State Revolving Loan Funds, upgrade of the existing East Side Noland Wastewater Treatment Plant, upgrade of the wastewater collection system, construction of new lift stations, and the construction of a new West Side 40 MGD Advanced Waste Treatment Plant. The total project cost was approximately \$120 million. He managed the city's and consultant's efforts during the Value Engineering process within the design phase, and served as project manager for the design and construction of the new \$40 million advanced waste treatment wastewater treatment plant on the west side.

- *This project received the highest award from the American Council of Engineering Companies of Arkansas, the "Grand Conceptor Award" in 2009.*

**Infiltration/Inflow Analyses and Sewer System Evaluation**

Project Manager - Surveys in 10 cities involving over four million feet of sanitary sewer system, including flow monitoring, above ground physical surveys, smoke testing, televised inspection, and sewer system rehabilitation, reconstruction, detailed analyses of flow monitoring data and sewer system rehabilitation cost-effectiveness analyses.

**WATER SYSTEM EXAMPLE PROJECTS**

Ulmer recently completed the Batesville, Arkansas Water System Master Plan which sets out water treatment plant expansions in the amount of \$12.5 million and water distribution system improvements of \$4.9 million.

Project Manager - Gleason Water Treatment Plant - construction and start-up of both a new water treatment plant; and the upgrade of the existing water treatment plant, for Conway Corporation, in Conway, Arkansas.

Project Manager – Construction and start-up of both a new water treatment plant in Central Arkansas, completed in 2005, and the upgrade of the existing water treatment plant, completed in 2006, for Conway Corporation, in Conway, Arkansas.

Additionally, Mr. Ulmer has managed extensive water distribution system hydraulic modeling and water master planning for the cities of Bentonville, Fayetteville, Jonesboro, Rogers and Springdale.



Jeffery L. Richards, P.E., BCEE  
Vice President – Director of Engineering  
Arkansas P.E. No. 6185

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**37 Years of Experience • MWY team member since 1978**

**EDUCATION**

*B.S. Civil Engineering, University of Arkansas, 1978,  
(20 hours graduate studies)*

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**DUTIES, RESPONSIBILITIES, EXPERIENCE SUMMARY**

Mr. Richards specializes in the design of water and wastewater treatment plants, lift stations, sewer lines, water booster stations, transmission lines, water storage facilities and metering facilities.

**Wastewater Facilities**

Project Manager - Biosolids Disposal Study for City Corporation involving seeking the most efficient and cost-effective biosolids disposal method for the city's wastewater treatment plant.

Design Engineer - Batesville, Arkansas – Upgrade to Batesville's existing 4.3 MGD wastewater lagoon system wastewater treatment plant expansion and conversion to a 9.0 MGD Moving Bed Bioreactor facility - This unique facility will be the only of its kind in Arkansas and one of largest in the United States.

Mr. Richards has been involved in the facility planning and design of three biological phosphorous removal plants in Northwest Arkansas including Rogers, Springdale and Bentonville.

Design Engineer - Fayetteville Pollution Control Facility - Design of a new 10.0 MGD AAF biological nutrient removal (BNR) facility to serve the western half of Fayetteville.

**Lift Stations Samples:**

Bentonville, Arkansas – McKisic Creek Lift Station and Flow Equalization Basin  
Springdale, Arkansas – Johnson and Robinson Lane Lift Station

**Biosolids Composting Samples:**

Bentonville, Arkansas – Bentonville Class A Biosolids Composting Facility  
Paragould, Arkansas – Wastewater Treatment Plant Expansion and Class A Biosolids Composting Facility

**Water Facilities**

Design Engineer - Batesville, Arkansas Water Treatment Facilities – This is a current project in Batesville, Arkansas which involves upgrading the existing 12 MGD water treatment plant, filters and clarifiers.

Design and Construction Manager - 1.5 MG Eagle Mountain Water Storage Tank and the 0.75 MG Denny Hill tank and booster station for the city of Batesville.

Design and Construction Manager - Pine Mountain Booster Station and Transmission Facility. This pump station is designed to pump water from the Pine Mountain tanks to the city of Harrison, Arkansas during peak periods of water usage. Mr. Richards was also responsible for the structural design of the filters and clearwell for the recent 6.0 MGD expansion of the existing water treatment facility.

Design and Construction Management - 750,000 gallon elevated water storage tank and 1,000 gpm booster station constructed under Phase II, for the Highway 45 East area of the city's water system, Fayetteville, Arkansas



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**M. Lane Crider, P.E., LEED AP**  
**Vice President**

Arkansas P.E. No. 9233; Oklahoma P.E. No. 20314;  
Missouri P.E. No. 2001011617; Tennessee P.E. No. 00109719

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**26 Years of Experience •MWY team member since 1989**

**EDUCATION**

*B. S. Civil Engineering, University of Arkansas, 1992*



**DUTIES, RESPONSIBILITIES, EXPERIENCE SUMMARY**

Mr. Crider joined MWY while still a student at the University of Arkansas. During that time he has performed duties as a surveyor and as an ACAD draftsman. Upon receiving his BSCE degree in 1992, Mr. Crider began work on various aspects of project planning, design and construction. His experience includes sludge application and industrial pre-treatment, street, paving and storm sewer design; sanitary sewer rehabilitation, relocation and reconstruction; and many other areas of design and construction for private and municipal projects.

**University of Arkansas**

Project Manager - Civil design of a new \$4.5 million renovation of the Pi Kappa Alpha Fraternity House on the University of Arkansas Campus.

**Studies & Master Planning**

Project Coordinator - Biosolids Disposal Study, City Corporation, Russellville, Arkansas

Project Manager - Northeast Growth Area Planning Study, Jonesboro, Arkansas

Project Manager - South Slope Sewer Study, Bentonville, Arkansas

Project Manager - Phosphorous Removal Study for West Side Wastewater Treatment Plant, Fayetteville, Arkansas

Project Manager - Water and Sewer Master Plan, Batesville, Arkansas

**Wastewater Treatment Plant Design**

Project Manager - Prairie Grove Wastewater Treatment Plant (0.9 MGD), Prairie Gove, Arkansas - *Funded in part by American Recovery and Reinvestment Act (ARRA).*

Project Manager - West Side Wastewater Treatment Plant (10 MGD), Fayetteville, Arkansas - *The facility is a significant part of the largest single municipal project ever undertaken in Northwest Arkansas. The new plant came online 2 days ahead of schedule and under budget.*

Project Manager - Woolsey wet-prairie and wetland mitigation site (28-acres) - *Constructed adjacent to the West Side WWTP and has become a prominent example of successful environmental stewardship around the state and region.*

**Water Treatment & Distribution**

- Improvements and modifications of the water treatment facilities for the Batesville, Water Utility, Batesville, Arkansas.
- Distribution Facilities - EDA-funded project to construct distribution facilities to serve a neighboring community, Batesville, Arkansas.
- Water treatment plant improvements including the construction of a new 0.5 MG clearwell and associated process piping and the refurbishing of two existing clearwells in order to increase disinfectant contact times, Batesville, Arkansas.



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Fayetteville, AR 72703  
479-443-3404  
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David L. Powers, A.I.A.  
Vice President – Architecture  
Arkansas Certificate No. 1024



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**49 Years of Experience • MWY team member since 1989**

**EDUCATION**

*Bachelor of Architecture, University of Arkansas, 1966*

**DUTIES, RESPONSIBILITIES, EXPERIENCE SUMMARY**

Professional experience includes master plans/facilities studies for churches, libraries, public utilities, schools, and treatment plants; site and building design for nursing/retirement centers, professional office buildings, fire stations, airport terminal buildings, park/recreation facilities; and industrial /process facilities design for private industry, utility companies, and municipal water and wastewater treatment plants.

**Recent Projects include:**

**LEED Projects**

**City of Fayetteville Solid Waste Transfer Station** – Architectural design - Design incorporating LEED certification methods for facility expansion and renovation utilizing low impact development.

**Beaver Water District** - Design and Construction services as the MWY project manager for the 14,000 square foot / 10-acre site (LEED GOLD) Beaver Water District Administration Center in Lowell, Arkansas. To achieve LEED GOLD status, the project incorporated such elements as recycled content, natural lighting, motion light sensors, and educational kiosks; all low-impact development measures that were practical for the site were implemented and many elements were synergistic. As the new public face of the District, the Center serves as teaching tool for conservation and public tours are regularly conducted at the new facility, teaching that sustainable, low-impact development is practical, cost-effective and aesthetically pleasing.

**Additional Projects:**

**Washington County**

- Washington County Tactical Training Center
- Washington County Courthouse parking deck
- 16-bay County Road Department Service Center

**Ozarks Electric Cooperative Corporation** - Expansion and renovation office and operations facilities in Fayetteville. The project included a master plan and facilities study prepared in close cooperation with the Owner and key staff personnel, followed there after by a preliminary design concept to meet the projected site and building needs of the company. A large-scale development plan was prepared, presented, and subsequently approved by the City of Fayetteville. Contract documents were then prepared for a two-phased construction project which included major additions and renovations to the operations and the office facilities. The project was completed in early 2003.





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Fayetteville, AR 72703  
479-443-3404  
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**Chris Brackett, P.E., CFM**  
**Engineer, Project Manager**  
Arkansas P.E. No. 10628  
Certified Flood Plain Management since 2009

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**20 Years of Experience • MWY team member since 2007**

**EDUCATION**

*Bachelor of Science in Civil Engineering, University of Arkansas, Fayetteville, Arkansas, 1995*



**DUTIES, RESPONSIBILITIES AND EXPERIENCE**

Certified in floodplain management, Mr. Brackett serves as the firm's expert in drainage and floodplain issues.

As well, he has extensive experience in the planning processes of numerous municipalities and developments. His expertise in this area involves every phase of development from concept, design, specifications, contracts, bidding, inspection, construction and project management.

**Site Planning**

Project Engineer – Springdale Schools, multiple site and drainage plans including utilities relocation, street improvements, site planning, drainage improvements, and on-site wastewater facilities.

**Land Development**

Mr. Brackett has significant experience with land development projects, including the necessary infrastructure design to accommodate the development. In addition to performing subdivision water and sewer design for private and public clients, he reviews development plans for the city of Farmington, Arkansas.

**University of Arkansas Projects**

Project Engineer, civil design - New \$4.5 million renovation of the Pi Kappa Alpha Fraternity House on the University of Arkansas Campus.

Project Engineer - Sidewalk erosion control and drainage improvements at the law building as well as performing a drainage improvement study for the UA intramural fields, street and parking improvements.

**Street and Drainage Projects**

Mr. Brackett has represented MWY as the project engineer on several recent street and drainage projects in Northwest Arkansas.

Design Engineer – Pinnacle Hills Parkway Extension, Rogers, Arkansas

Design Engineer - Bellview Road widening and drainage improvements, Rogers, Arkansas

Design Engineer - Monte Ne Road improvements with roundabout and signalization, Rogers, Arkansas

Design Engineer - Sonora Road Widening and Signalization, Springdale, Arkansas



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Chris Dougherty, P.E.  
Engineer, Project Manager  
Arkansas P.E. No. 14497

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**9 Years of Experience • MWY team member since 2006**

**EDUCATION**

*Bachelor of Science in Civil Engineering, University of Arkansas, Fayetteville, Arkansas, 2006*

Mr. Dougherty's experience sanitary sewer systems, hydrology and drainage systems, hydraulics and sanitary sewer system; also includes transportation, structures (including reinforced concrete, steel, and masonry), foundations, His project experience includes data analysis, geocoding, modeling, municipal streets and transportation, wastewater treatment facilities, and large scale development.

**Studies/Master Planning**

Project Engineer/Data Analysis/Geocoding - Batesville Arkansas Hydraulic Sewer Model

Project Engineer/Data Analysis/Geocoding - Jonesboro, Arkansas Sewer Model

**Water Treatment Facilities**

Project Engineer - Clarksville, Arkansas Water Treatment Plant Design, including structures and piping

**Wastewater Treatment Facilities**

Project Engineer - For the planning, design, and construction of wastewater facilities, including reinforced concrete tanks for wastewater facilities: Holiday Island, Huntsville, Prairie Grove, and Batesville.

Process Design - Experience includes disinfection facilities in Prairie Grove and Batesville, Fayetteville, Holiday Island, and Prairie Grove and Pea Ridge, Arkansas.

**Large Scale Development**

Mr. Dougherty has experience in the large scale development planning processes of numerous municipalities in northwest Arkansas.

Springdale Schools - Site development of several new schools in Springdale, Arkansas creating construction plans, specifications, and drainage reports.

Mr. Dougherty has also assisted in oversight services to the city of Farmington. Oversight has included review of subdivision plans, drainage reports, and participation in review meetings.

**Municipal Streets and Transportation**

Project Engineer - Hylton Road Widening and Drainage Improvements, Springdale, Arkansas

Design Assistance - Pauline Whitaker Parkway in Rogers, Arkansas, which includes one of the largest roundabout intersections in the state.

Design Assistance - Bellview Road widening in Rogers, Arkansas



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**Chris Hall, P.E.**  
**Engineer, Project Manager**  
Arkansas P.E. No. 12012  
Oklahoma P.E. No. 23466



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**16 Years of Experience • MWY team member since 1999**

**EDUCATION**

*Bachelor of Science in Civil Engineering,  
University of Arkansas – 1999*

**EXPERIENCE**

Mr. Hall's design expertise is in the area water modeling and master planning; and he has lead the MWY team on over 15 such projects for the cities of Rogers, Springdale, Fayetteville, Bentonville, Clarksville, Lakeview/Midway, Beaver Water District, Carroll-Boone Water District and others.

As a project manager/engineer, his areas of expertise hydraulic modeling and analyses of water distribution systems and water and wastewater master planning, and floodplain studies.

**Master Planning and Hydraulic Modeling**

Project engineer - Carroll-Boone Water District 20-Year Master Plan; and recommendations for specific improvements in areas of water treatment, transmission and storage facilities.

Project Engineer - Springdale Water and Sewer Master Plan Study Update that was subsequently awarded the ACEC Engineering Excellence Award.

Project Engineer - Water models for the Arkansas cities/water districts of Batesville, Bethesda, Bentonville, Rogers, Clarksville, Fayetteville, Springdale, Gravette and the Carroll-Boone Water District. These included population and usage data for digital analysis and spatial evaluation of existing and future demands to locate potential problems that may occur within the water systems.

- Mr. Hall's recent work in the area of water modeling and master planning for the city of Bentonville was honored by the American Council of Engineering Companies of Arkansas with the organization's highest award for engineering in 2011.

Project Engineer - Beaver Water District's "Stage II D/DBP Compliance Study Report" modeling phase.

Project Engineer - Drainage Models - For the cities of Jonesboro, Springdale and Lowell, Arkansas to analyze drainage flows.

**Water/Wastewater**

Water Distribution, Booster Stations and Storage Systems

Project Engineer - Logan County/Clarksville Water Transmission Line Extension

Project Engineer - Fayetteville, Arkansas 24-inch water main replacement project and PER

Project Engineer - \$1 million Green-Berry Booster Station serving the Carroll-Boone Water District

Project Engineer - \$15 million Carroll-Boone Water Transmission Line

Project Manager/Engineer - 5-MG ground storage tank for the Carroll-Boone Water Association.

**Sewer Studies (SSES) Hydraulic Modeling**

Bentonville, Batesville, Farmington, Springdale and Holiday Island.

**Flood Mitigation**

Project Manager/Engineer - Arkansas State Parks and Tourism - for the construction and renovation of several campgrounds and repairing flood damage to an existing dam and waterway at Devil's Den State Park near Winslow, Arkansas. These projects included flood mitigation of Lee Creek.

Project Manager/Engineer - Keels Creek mitigation involving nearby Utilities, Carroll-Boone Water District

Project Manager/Engineer - Turtle Creek mitigation involving nearby utilities, Rogers, Arkansas Water Utilities



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Fayetteville, AR 72703  
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**Craig Hardin, P.E.**  
Engineer, Project Manager  
Arkansas P.E. No. 13205

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**12 Years of Experience • MWY team member since 2003**

**EDUCATION**

*Bachelor of Science in Civil Engineering, University of Arkansas, 2003*



**DUTIES, RESPONSIBILITIES, EXPERIENCE SUMMARY**

Mr. Hardin's area of expertise involves structural design for water and wastewater facilities, bridges, parking and other structures; drainage studies, and road improvements.

**Water & Wastewater Facilities**

Project Engineer - Batesville, Arkansas Wastewater Treatment Facility - Structural design for a 9 MGD Plant Expansion. This plant expansion required several unusually deep treatment structures with challenging design considerations.

Project Engineer - Fayetteville, Arkansas Westside Wastewater Treatment Facility - Structural and process design of various structures for a new 10-MGD wastewater treatment facility providing service for the western half of Fayetteville.

Project Engineer - Broken Arrow Oklahoma Lynn Lane Wastewater Treatment Expansion - Structural design for an expansion and upgrade of the existing wastewater treatment facilities. Also, Lynn Lane Wastewater Treatment Plant Improvements structural design of a new biosolids transport facilities.

Project Engineer - Springdale, Arkansas Benton Farm Lift Station - Structural design and construction services of a new lift station with an ultimate pumping capacity of 10,000 gpm.

Project Engineer - Beaver Water District Construction services for an expansion of the existing water treatment plant facilities and new raw water intake facilities.

**Site Planning & Drainage**

Project Engineer - Springdale, Arkansas School District - Drainage studies and drainage system for new Springdale High School, Middle School, and Northwest Elementary School.

**Arkansas Department of Parks (Structural)**

Project Engineer - Structural Design of the pedestrian suspension bridge at Devil's Den State Park

Project Engineer - Structural review, structural repairs and improvements to the natural stone dam on Lee Creek and surrounding day-use area.

**Jessica Keahey, P.E., LEED AP**  
**Engineer, Project Manager**  
Arkansas P.E. No. 14040  
Oklahoma P.E. No. 25228



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**11 Years of Experience • MWY team member since 2004**  
**EDUCATION**

*Master of Science in Civil Engineering, Summa Cum Laude,  
University of Arkansas, 2008*  
*Bachelor of Science in Civil Engineering, Summa Cum Laude,  
University of Arkansas, 2004*

### **DUTIES, RESPONSIBILITIES, EXPERIENCE SUMMARY**

Ms. Keahey specializes in the planning and design of wastewater treatment systems, including municipal pretreatment programs and industrial wastewater systems.

#### **Municipal NPDES Permitting and Sludge Management Plans**

Project Engineer (Current Project) - Biosolids Disposal Study for City Corporation involving seeking the most efficient and cost-effective biosolids disposal method for the city's wastewater treatment plant.

Project Engineer - Updated Sludge Management Plans for City Water and Light of Jonesboro, in concert with renewed permitting for land application of biosolids.

Project Engineer - NPDES effluent permit renewal application and formal permit response process, for achievement of final discharge permits.

#### **Master Planning and Specifications**

Design Engineer - Development of the Water and Sewer Master Plan for the City of Springdale, including recommended lift station improvements for 5, 10, and 20 year design horizons and the accompanying comprehensive Springdale Water Utilities Master Water and Sewer Specifications and Details.

#### **Municipal Wastewater Treatment Facilities**

Design Engineer - Wastewater treatment facility for the cities of Batesville, Berryville, Fayetteville, Gravette, Green Forest, Prairie Grove, and Lost Bridge Village Improvement Districts.

Project Engineer - City of Batesville's wastewater treatment plant expansion and conversion to a Moving Bed Bioreactor facility - This unique facility will be the only of its kind in Arkansas and one of largest in the United States. The project was recognized by EPA as a Green Project under the American Recovery and Reinvestment Act for its energy savings and was awarded \$10 million of ARRA Recovery funds, and was included in Vice President Biden's report *100 Recovery Projects That Are Changing America*.

#### **Municipal Pretreatment Programs**

Design Engineer - Developed an updated Pretreatment Program for City Water and Light of Jonesboro, in accordance with "Streamlining Rule" provisions, including the determination of technically based local limits and the development of the Industrial Pretreatment Program, Industrial User notifications and permits, and municipal Sewer Use Ordinance.

#### **Industrial Wastewater Systems**

Design Engineer - Advanced Environmental Recycling Technologies. Included gaining application for the industry to discharge in the scenic Illinois River Basin and design of the industrial wastewater treatment facilities.

#### **Municipal Water Treatment Facilities**

Project Engineer - Analyzed water characteristics of contributing surface waters to the White River and influent and effluent data of the Batesville water treatment plant to determine the effects of changing





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water characteristics and chemical types and doses on effluent quality.



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**Zane Lewis, P.E., LEED AP BD+C**  
Engineer, Project Manager  
Arkansas P.E. No. 13641

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**12 Years of Experience • MWY team member since 2004**  
**EDUCATION**

*B. S. Civil Engineering, University of Arkansas, 2003*  
*LEED Accredited Professional Building Design & Construction*



#### **DUTIES, RESPONSIBILITIES, EXPERIENCE SUMMARY**

As one of the firm's LEED Certified engineers, Mr. Lewis has provided his expertise in this growing area of design emphasis. Among his most notable projects is the LEED Gold Certified Beaver Water District building/site plan.

Mr. Lewis has participated in the creation of an internal GIS database with a significant amount of local data. He oversees map creation and data integration for use on many projects from conceptual to final design phases.

#### **LEED Projects/Site Design**

City of Fayetteville Solid Waste Transfer Station – Project manager - Civil/Site Design and LEED management for facility expansion and renovation utilizing low impact development.

Beaver Water District Civil/Site Design – Project engineer - Civil/site construction documents for the new Beaver Water District Administration Center. Completed in late 2009, the site improvements contributed to the project achieving a LEED GOLD rating (Leadership in Energy and Environmental Design) from the U.S. Green Building Council; and also the Grand Conceptor Award from the American Council of Engineering Companies of Arkansas. The design focused on water sustainability and included: pervious concrete pavement, grass pavers, infiltration/bioretention basins, water reuse, on-site wastewater treatment, and a high ratio of open/green space to increase infiltration of storm waters and promote groundwater recharge.

#### **Wastewater Treatment Facilities**

Prairie Grove Wastewater Treatment Plant – Design Engineer -- The design called for a large-scale changeover of the existing 0.50 WWTP, with insufficient capacity and aged equipment, to a modern, efficient 0.9 MGD biological phosphorus removal (BPR) type facility. The design also involved numerous permitting aspects.

#### **Hydrologic Analysis**

Mr. Lewis has performed hydrologic and hydraulic investigations including storm water drainage systems, detention pond and outlet structure design, and downstream water surface elevation analysis.

Design engineer -2003 Springdale Bond Improvement Program including hydrologic analysis and design of the major and minor storm drainage systems, conceptual erosion control plan and drainage reports, coordination of utility relocation efforts between city officials, contractors, utility representatives, and property owners.

Project Engineer – Devil's Den flood damage repair along Lee Creek / Fayetteville Westside Wastewater Treatment Plant / Springdale Schools – multiple sites

#### **Street Design**

Pauline Whitaker Parkway - Design of the first large-capacity "modern roundabout" intersection in Arkansas.



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**Jim Vetter, P.E.**  
Engineer, Project Manager  
Arkansas P.E. No. 14523

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**8 Years of Experience - MWY team member since 2007**

**EDUCATION**

M.S. Civil Engineering, University of Arkansas, Fayetteville, 2007

B.S. Civil Engineering, Magna Cum Laude, University of Arkansas, Fayetteville, 2009



**DUTIES, RESPONSIBILITIES, EXPERIENCE SUMMARY**

Mr. Vetter's specialty areas include the design of water and wastewater systems as well as stormwater and drainage issues.

**Municipal Water Distribution and Storage Systems**

Project Engineer - Carroll-Boone Water District Hydraulic Model

Project Engineer - One-million gallon storage tank for the city of Gravette, Arkansas

**Wastewater Treatment Facilities**

Project Engineer - Facility planning for the city of Gravette Wastewater Improvements Project

Project Engineer - Washington County Jail Sew Improvements Project

Project Engineer - Northwest Arkansas Conservation Authority (NACA) Sludge Study

Project Engineer - Operation and Maintenance (O&M) Manual for Fayetteville, Arkansas West Side Wastewater Treatment Facility

Project Engineer - Various structural designs for treatment structures and appurtenances (including reinforced steel and aluminum)

**Stormwater Systems**

Project Engineer - Stormwater retention and conveyances system for Advanced Environmental Recycling Technologies (AERT) recycling facility in Watts, Oklahoma

**Rate Studies**

Project Engineer - Water rate study for the city of Gravette, Arkansas. The study involved development and verification of a rate model from existing customer usage and revenue data. An analysis was conducted of the existing and projected income and expenses to determine the funding requirements for the water utility. The study proposed new water rates which were enacted by the city council.

**Related Experience**

Mr. Vetter completed a research program as part of his master's thesis focused on the application of the maturity method to measure strength of concrete containing fly ash and slag cement cured at two low temperatures.



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**Brian Gartside**  
**Systems Analyst, Electrical, Instrumentation  
and Control Systems Design**

Water Treatment Operator, Grade IV, License No. 07887T4  
Water Distribution Operator, Grade IV, License No. 07887D4

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**44 Years of Experience** ▪

**EDUCATION**

*B. S. Industrial Management, 1971, University of Arkansas*



**DUTIES, RESPONSIBILITIES, EXPERIENCE SUMMARY**

**Instrumentation and Control Systems**

Mr. Gartside is the project manager in charge of electrical, instrumentation, and control systems design. His expertise is specifically focused in the area of writing specifications and the design of instrumentation and control systems for water treatment, wastewater treatment, water distribution, and sewage collection facilities.

He has also designed, written specifications, and supervised the construction of supervisory control and data acquisition (SCADA) systems utilizing copper phone line circuits, cellular phone systems, radios, hardwire Ethernet systems, wireless Ethernet systems, and fiber optic Ethernet networks for the following Arkansas cities/municipalities:

▪Batesville ▪ Beaver Water District ▪ Carroll-Boone Water District ▪ Bentonville ▪ Berryville ▪ Conway Corporation ▪ Lincoln ▪ City Light and Water of Paragould ▪ Clarksville Light and Water ▪ Rogers ▪ Fayetteville ▪ Also Broken Arrow, Oklahoma.

**Systems Analyst**

As systems analyst, Mr. Gartside has the responsibility of ensuring that the computer, telephone, and security systems run efficiently in all areas where the firm utilizes the systems.

He has developed numerous software applications used in the firm's information management and accounting functions. The main uses of the computer systems utilized by the firm are in the computer modeling of water distribution systems, computer aided design and drafting, facilities management, Geographic Information Systems, project management, and accounting.

He was responsible for upgrading our Ethernet network utilizing fiber optic cable to increase our productivity and plotting throughput.

Mr. Gartside assisted in the water system analysis projects which have been done for the cities of Jonesboro, Rogers, Bentonville, Fayetteville, Springdale, Prairie Grove, and Harrison, Arkansas, as well as for the Beaver Water District transmission facilities and the Carroll-Boone Water District transmission facilities.

Mr. Gartside is proficient in the use and configuration of Microsoft Windows operating systems, network architecture and configuration, and Microsoft Office applications including an extensive knowledge of Microsoft Access database, and AutoCAD software.



**Julian Santa-Rita**  
Engineering Technician

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*11 Years of Experience • MWY team member since 2004*

**EDUCATION**

*Bachelor of Fine Arts, Armstrong Atlantic State University, Cum Laude, Savannah, Georgia, 2004*

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**DUTIES, RESPONSIBILITIES, EXPERIENCE SUMMARY**

Mr. Santa-Rita provides technical expertise as the firm's systems and network administrator. His areas of expertise include GIS mapping, technical visualization and contract preparation. Internally, improvements have included updating infrastructure to Microsoft Active Directory, Implementing a web-facing client communication portal (Newforma Project Management), and website development.

In addition, during our office relocation in 2008, Julian played a key role in providing a seamless transition of our technical infrastructure.

*Mr. Santa-Rita created a Geocoding Instructional Document that is among the top five Google hits for that search criteria.*

Some recent with municipal projects is listed below:

**Geographic Information Systems (GIS)**

- GIS Specialist – Batesville, Arkansas Sanitary Sewer Evaluation Study and Subsequent System Improvements
- GIS Specialist – Batesville, Arkansas Water System Mapping for System Master Plan
- GIS Specialist – Fayetteville, Arkansas Geocoding Water System Usage for System Master Plan
- GIS Specialist – Springdale, Arkansas Geocoding Water System Usage for System Master Plan
- GIS Specialist – Jonesboro, Arkansas Geocoding and preliminary GIS for the Northeast Area Wastewater Collection and Transmission Development Study and Subsequent System Improvements
- GIS Specialist – Bentonville, Arkansas, Geocoding Water and Sewer Master Plan Study
- GIS Specialist – Flippin, Arkansas, System Modeling

**Contract Development**

- Specification Writer - University of Arkansas campus-wide audio visual system design/networking IDIQ purchasing agreement
- Specification Writer - University of Arkansas campus-wide surveillance, fire-alarm systems, buildings security and access control IDIQ purchasing agreement





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**Richard Cantrell**  
**Engineering Technician**

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*44 Years of Experience • MWY team member since 1971*

#### **DUTIES, RESPONSIBILITIES, EXPERIENCE SUMMARY**

Mr. Cantrell is a project coordinator/engineering technician, and has been with the firm since July 1971. During this time he has been involved in project development and all phases of design and construction.

These have included:

- Rural water development
- Street and drainage improvements
- Utilities relocation
- Water storage and distribution facilities
- Wastewater collection facilities

#### **Cost Estimating**

Construction Cost Estimation – For studies in Rogers, Batesville, Bentonville, Fayetteville, Jonesboro, Springdale, Carroll-Boone Water District and numerous others.

#### **Design and Construction Observation**

Mr. Cantrell has provided engineering technician services in the form of design and construction observation for numerous water and wastewater facilities, including water distribution lines, storage tanks, water and wastewater treatment facilities and others.

#### **Water and Wastewater**

Mr. Cantrell has provided his expertise in the development, design and construction of more than 400 miles of rural water systems, including controls, pump stations and storage facilities, for numerous Northwest Arkansas cities.

He has also been involved in large-diameter water transmission facilities along with numerous wastewater collection facilities for various municipalities.

#### **Utilities Relocation**

Among his projects with MWY, Mr. Cantrell has completed more than 30 water and sewer facilities relocation projects for more than ten cities and counties in Northwest Arkansas within the past 35 years involving the Arkansas Highway and Transportation Department.

#### **Project Coordinator**

An important facet of Mr. Cantrell's experience includes his ability to coordinate the communication during projects with the numerous entities and utilities involved. This experience includes having worked many times with the Arkansas State Highway and Transportation Department.





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James R. McKee  
Computer Aided Drafting Manager

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**42 Years of Experience • MWY team member since 1973**

**EDUCATION**

Northwest Technical Institute  
Advanced Architectural Drafting – 100 Hrs.



**DUTIES, RESPONSIBILITIES AND PROJECT EXPERIENCE**

Mr. McKee's duties include verifying all office CAD standards are applied to project drawings by confirming that they contain correct line weights and styles, text size and styles, sheet layout and plans arrangement; setup and upkeep of printer/plotters for the CAD Department, and official contact between client/alliance partners and organizations regarding CAD standards; ensure that technicians understand client specific standards requests; review drawings with the engineer as jobs progress through revision phases to ensure adherence to company standards and engineering compliance.

Examples of his expertise are as follows:

**City Mapping** – Setup individual section maps for all of the city of Springdale to show border, section number, map title and sheet index after obtaining map data from aerial photographers; set color, layer, linetype and line thickness for all planimetric and contour information in Microstation drawing software; transfer all data to AutoCAD for the city's use. Index all drawings and provide tape and CD backup.

**Water Treatment Plant Expansion**

Carroll-Boone Water District, Assemble a site plan using planimetric and contour data provided by aerial survey. Locate on the site plan the expanded facilities including a flow division structure, a clarifier, chemical feed building, backwashing filters, secondary disinfection building, clearwell with high service pumps, maintenance building, and associated piping and valves. The project, which has an estimated cost of \$4.5 million dollars, is under construction.

Beaver Water District, Served as part of the design team with Montgomery-Watson Engineers. Responsible for the drafting and design of the Process, Mechanical, and Civil drawings using Microstation drawing software. The project began in January of 1989 and was completed in June of 1990.

**Master Water and Sewer Maps** –

Update Water and Sewer maps with information provided by the city in the form of plans of record of various subdivisions and water and sewer expansion projects. Set standard for line sizes, setup border sheets and finished map scale with AutoCAD drawing software. Project began September 1989 and was completed in January of 1990.

**Facility Plan and Wastewater Treatment Plant Expansion** – Provided maps of the existing facilities using base maps from the Arkansas Highway and Transportation Department and sewer line project drawings provided by the city of Rogers of their system. Project began March 1994 and was completed in January of 1995.



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**Charlie Watson**  
Construction Observation Coordinator

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*21 Years of Experience • MWY team member since 1994*

**EDUCATION**

Northwest Technical Institute – AutoCAD – 144 Hrs.

Arkansas Environmental Academy – Basic Motor Control Circuits

**MEMBERSHIPS**

The Society for Protective Coatings (SSPC)

NACE International

Arkansas Rural Water Association



**DUTIES, RESPONSIBILITIES AND PROJECT EXPERIENCE**

Mr. Watson is MWY's construction observation coordinator for which he is in charge of scheduling observation personnel, serving as liaison for observation events with clients, engineers, project managers, contractors or any other involved party.

He also maintains warranty schedules on construction projects, assists in plans and specifications review, and assists with writing paint specifications.

His experience is utilized in many facets of Construction Services. He has also performed duties as part of the survey crew, AutoCAD "Record Plans" drafting, and Resident Project Representative.

**Resident Project Representative (RPR)**

Mr. Watson's RPR experience includes submittal review, computer work (spread sheets, Partial Pay Estimates, computer aided drafting, correspondence, reports, standardized forms, etc.) as well as all aspects of project site construction observation.

**ADEQ Compliance and Reporting**

One aspect of Mr. Watson's responsibilities for many projects includes working check plans with requirement and providing reports; and ensuring the contractor is meeting the requirements.

**Survey**

He has assisted with civil engineering surveying in areas including; Batesville, Beaver Water District, Bentonville, Clarksville, Rogers, Fayetteville, Springdale, Prairie Grove, Gravette, Greenland, Green Forest, Lincoln, Farmington, Arkansas State Parks, Jonesboro, Huntsville, Pocahontas, Carroll-Boone Water District, Yell County Water Association at Dardanelle.



Jeff Windham  
Engineering Technician

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23 Years of Experience • **MWY team member since 2007**

#### EXPERIENCE

Mr. Windham joined McGoodwin, Williams and Yates in 2007 as one of the firm's engineering technicians. His background includes more than 23 years of experience as a water and wastewater maintenance technician and water plant operator as well as survey and site observation.

#### PROFESSIONAL REGISTRATION

Grade 4 – Licensed Water Treatment Operator, State of Arkansas  
Grade 4 – Licensed Water Distribution Operator, State of Arkansas

#### DUTIES, RESPONSIBILITIES AND EXPERIENCE

##### Current – McGoodwin, Williams and Yates, Engineering Technician

- City of Batesville wastewater treatment system upgrades
- Washington County Courthouse Parking Deck
- Beaver Water District – Steele Plant renovation and upgrade
- Beaver Water District – New (LEED GOLD) Administration Center/Site Campus

##### 1993 to 2007 – Conway Corporation

- Water plant operator for seven years
- Water and wastewater maintenance technician, seven years

##### 1991 to 1993 -- Mayes, Suddereth and Etheridge Engineering Firm

- United States Army, Camp Joseph T. Robinson; Spill Prevention Control & counter Measure Plans for Organizational Maintenance Shops at Pine Bluff, Russellville, Heber Springs, Marianna, El Dorado, Search, Prescott, Hazen, West Memphis, Malvern, Warren, Harrison, Jonesboro and Fort Smith.
- Infiltration Analysis, Gould, Arkansas
- Water Treatment Plant, Cushman, Arkansas
- Sewer Main Extension and Water System Improvements, Danville, Arkansas
- Population Survey, Manila, Arkansas
- Highway 65 Widening & Topography, Lake Village, Arkansas
- Airport Expansion, Melbourne, Arkansas

##### 1990 – 1992 – Lachowsky Cleaver Land Surveying

- Layout of the Wal-Mart Super Center, Morrilton, Arkansas
- Super 9 Motel, Morrilton, Arkansas
- Waffle House, Morrilton, Arkansas
- Topography of Phosphate, Mine Denard, Arkansas
- Various other residential and Commercial Construction Projects

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Fayetteville, AR 72703  
479-443-3404  
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Gary Denzer, P.L.S.  
Licensed Professional Land Surveyor  
Arkansas No. 1266 Oklahoma No. 1703



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**44 Years of Experience •MWY team member since 1971**

#### DUTIES, RESPONSIBILITIES, EXPERIENCE SUMMARY

Mr. Denzer leads the MWY survey team. He is experienced in easements, right-of-way, route selection and in working with legal descriptions.

#### Example Projects

Survey - Washington County Jail Site improvements, Fayetteville, Arkansas  
Survey - Washington County Jail Sewer Improvements, Fayetteville, Arkansas  
Survey - Washington County Sheriff Department Tactical Training Facility, Fayetteville, Arkansas  
Survey - Site and street improvements on an on-going basis as needed, for over 15 new schools in Springdale, Arkansas

#### Additional Areas of Experience:

##### Waterline Route Selection

Specifically, Mr. Denzer has supervised most of the engineering surveys undertaken by MWY and has had preliminary route selection responsibility for literally hundreds of miles of water and sewer lines.

These projects vary in scope from very small water line extensions up to a 55 mile long, 30-inch and 24-inch water transmission main through the rough terrain of Northwest Arkansas.

##### Water/Wastewater Site Survey

Mr. Denzer has also done water and wastewater treatment plant surveys and surveys of existing treatment plant units.

##### Project Coordination and Communication with State Agencies

In addition, Mr. Denzer has worked with various state and federal agencies in Arkansas in regard to planning and construction of water, wastewater utility relocation, street and drainage, and airport projects. He has also completed all survey activities involving MWY projects involving Arkansas state parks.

##### Easements and Right-of Way

Mr. Denzer has extensive experience in determining project right-of-way requirements and preparing legal descriptions for all types of municipal improvements. This includes right-of-way acquisition on numerous major projects in Northwest Arkansas and throughout the state.