

# ENGINEERING EXCELLENCE. LASTING IMPACT.



**Missouri's  
Local  
Program**  
for community  
development



## About Us

M Engineering, LLC, dba Cochran is a full-service firm providing civil engineering, land surveying, construction administration, construction inspection, materials testing, geotechnical, and architectural services. We specialize in delivering complex projects and solving challenges with precision and expertise.



We offer comprehensive in-house consulting services for public, municipal, government and private clients across Missouri. Our experience includes managing projects with and without federal funding.



We provide all consulting services in-house and are dedicated to building long-lasting relationships with our clients. Our experienced and skilled team of professionals understands each client and project has a unique set of needs and constraints. Therefore, we evaluate existing conditions, recommend practical solutions and anticipate design/construction conflicts and cost concerns, and present alternatives based on expert architectural and engineering judgment.

**Route DD Improvements -  
J6S3509 | STP-7302(684)  
City of O'Fallon**

## PRIMARY CONTACT

Kurtis J. Daniels, PE  
Principal | Vice President  
8 East Main Street  
Wentzville, MO 63385  
(636) 332-4574  
kurt@cochraneng.com  
www.cochraneng.com

**Roadways | Trails & Sidewalks | Construction Inspection**

# COMPREHENSIVE IN-HOUSE SERVICES



## SITE | CIVIL ENGINEERING

Cochran understands the importance of creative and cost effective civil engineering and planning, for the overall success of your project. Rich in experience, our team of professionals has the diverse capabilities and in-depth knowledge to guide your project from site conception, budgeting, programming and construction completion.

Cochran's experience in site development includes a wide variety of applications, ranging from single lot commercial buildings to large-scale industrial complexes. We also conduct site specific evaluations related to grading, drainage, access, and issues. Our extensive knowledge of zoning, utility issues, and environmental regulations contribute to a comprehensive suite of services with the flexibility to accommodate projects of any size.

### *Our Services Include:*

- Site Selection and Due Diligence Services
- Site Redevelopment
- Land Surveying
- Land | Master Planning
- Preliminary Cost Analysis and Value Engineering
- Zoning | Entitlement Process
- TIFF | CID | TDD Process
- Site and Civil Engineering
- Permits and Approvals
- Construction Administrative Services
- Transportation Engineering
- Water Resource Management
- Low Impact
- ADA Compliance



## ENVIRONMENTAL - STORMWATER

Cochran engineers have studied, evaluated, and designed solutions for stormwater issues on every level, from major developments to individual facilities.

Our team has performed stormwater engineering services for municipalities, which have included immediate and long-term planning solutions. We have extensive experience with regulatory agencies, specifically the acquisition of permits and approvals.

Stormwater runoff of any drainage area is a function of climate and the physical characteristics of the area. Factors that may be pertinent in precipitation-runoff relationships include precipitation type, rainfall intensity, duration, and distribution; initial soil moisture conditions; soil type; evaporation; transpiration; and the size, shape, slope, elevation, directional orientation, and the land-use characteristics of the drainage area.

### *Our Services Include:*

- Hydraulic Analysis of Drainage Systems
- Closed Conduit Systems
- Stormwater Retention and Detention Basins
- Erosion Control Assessments, SWPPP Designs and Systems, and Facilities
- Drainage System Evaluations and Studies
- Hydrologic Computer Modeling and Calculations
- Evaluation of Hydraulic Structure Capabilities
- Preparation of Drainage Maps and Systems
- Urban Runoff Collection & Management and Permitting
- Water Quality Analysis, Mitigation & Design
- Lake & Dam Design and Permitting
- Watershed Planning and Mitigation Assessments



## GEOTECHNICAL ENGINEERING

Experience and a commitment to quality are the key components of our geotechnical and environmental team. Managed by professional engineers with more than 25 years of experience, our fully-equipped soils mechanics laboratory is equipped with modern testing instruments. All testing is conducted in accordance with ASTM procedures to ensure quality results.

### *Our Services Include:*

- Foundation Design | Materials Evaluation
- Consolidation | Immediate Settlement Calculations for Different Soil
- Slope Stability Analysis
- Concrete | Asphalt Pavement Evaluation
- Soil Improvement | Stabilization Recommendations
- Geotechnical Sampling | Logging
- Bearing Surface Observations, Shallow Foundations, Piers & Piles

# OVERALL SERVICES

- Civil Engineering
- Land Surveying
- GIS | Mapping
- Architecture | Interior Design
- Geotechnical Engineering
- Transportation
- Site Analysis
- Stormwater
- Construction Administration
- Construction Quality Management
- Construction Inspection & Materials Testing
- Drinking Water
- Wastewater
- Cost Estimating
- Grant | Funding Assistance
- Master Planning
- Needs Assessment
- Feasibility Studies
- Market Analysis
- Energy Analysis
- LEED Certification



## CONSTRUCTION MATERIALS TESTING & INSPECTION

Cochran’s technicians are highly trained in conducting field testing and inspections to ensure project specifications are met. Our technicians are MoDOT and ACI certified to provide testing at each stage of pavement and bridge construction. Our company and laboratory are accredited per AASHTO and CCRL guidelines. In addition to field services, our 1,200 square foot in-house lab provides a wide-range of soil, asphalt, and concrete testing to ensure all materials used meet project specifications. We also actively participate in the AASHTO Proficiency Sample Program. We specialize in testing and inspection of: asphalt, pavement placement, pavement coring, foundation construction, reinforced concrete construction, structural masonry construction, and special inspections meeting IBC.

### Our Lab Services Include:

- Sieve Analysis
- Asphalt Core Density
- Asphalt Lab Testing
- Swell & CBR
- Atterberg Limits
- Standard & Modified Proctor
- Aggregate Analysis
- Concrete Compression | Flexural Testing
- Shear Strengths
- Unconfined Compressive Strength of Soils

### Our Field Services Include:

- Slump & Air Testing
- Foundation Construction Observation
- Structural Masonry Quality Control
- Reinforced Steel Inspection



## LAND SURVEYING

We specialize in all facets of land surveying and data collection. Our land surveying department functions as both an autonomous group and as a support service to our engineering services. Our in-house land surveying equipment and technology provide quick and accurate data for cost-effective and successful projects. The value of accurate and comprehensive land surveys cannot be overestimated. Numerous public agencies, utilities, land developers, engineers, architects, and others make constant use of our state-of-the-art professional land surveying services.

### Our Services Include:

- Design Surveys
- Topographical Surveys
- Boundary, ALTA, and Utility Surveys
- Right-Of-Way Plats
- Subdivision Platting
- Lot Surveys
- Easement Preparation
- Construction Staking

LOCAL PUBLIC AGENCY (LPA)	LPA RATINGS
City of Warrenton Guy Gevers, Public Works Administrator	Timeliness: Excellent   Quality: Above Average <b>Overall: Excellent</b>
City of Weldon Spring Michael Padella, MBA, City Administrator	Timeliness: Above Average   Quality: Excellent <b>Overall: Above Average</b>

## OUR TEAM

M Engineering, LLC, doing business as Cochran is lead by four principals — **Kurtis J. Daniels, PE, Christopher N. Boone, PE, Shannong Johannig, PE, and David Christensen, PE** — who are committed to delivering exceptional service through hands-on involvement in every phase of each project. They take personal and professional responsibility for project success, ensuring every assignment receives the focused attention it deserves. They also provide firm-wide leadership grounded in Cochran's core values: uncompromising quality, creative and thoughtful design solutions, responsive collaboration and clear communication with our clients, and ethical, respectful teamwork with all partners and stakeholders, including the Missouri Department of Transportation.



### Principal | Kurtis J. Daniels, PE

With 30+ years of experience, Mr. Daniels is responsible for a diverse assortment of civil engineering projects, including site development, surveying, construction management, construction inspection and testing, roadway design, flood studies, and storm sewer design. He provides executive leadership and oversight on projects ranging from subdivisions and commercial sites, to municipal infrastructure to roadways.



### Geotechnical Manager | Mike Hackmeister, PE

With 13+ years of experience, Mike is responsible for providing all geotechnical, environmental and jurisdictional services as needed. His duties include interfacing with clients; subsurface exploration and drilling operations supervision; laboratory testing assignments; development of geotechnical and environmental reports; providing construction observation and inspection to assure compliance with specifications. Field experience includes liquefaction analyses, underseepage analyses of dams and levees, and settlement analyses & preloading options.



### Director of Surveying | Nick Coates, PLS

With more than 34 years of experience in field crew management, project data organization, and quality control administration, Mr. Coates has wide ranging knowledge of all types of land surveys. He is an expert in computer technology related to land surveying, existing/proposed topography, and construction layout with over 25 years of experience in AutoCAD/Civil 3D, GIS Software, Trimble, TopCon and Microstation/GeoPak.



### Engineering Manager | Eric Kirchner, PE

Mr. Kirchner has more than 29 years of experience in civil engineering and has built strong client relationships through clear, consistent communication. As an engineering manager and partner, he leads project teams, provides technical oversight, manages quality control and quality assurance, and ensures projects are delivered on time and within budget. He is highly experienced in the design and construction of municipal, commercial, and residential projects, including roadway systems, storm sewer and drainage improvements, water main extensions, and site development. He pairs this technical expertise with a practical, solutions-focused approach that supports successful project delivery from planning through construction.



### Materials Testing Field Manager | Mark Simon, RG

With 20+ years of experience, Mr. Simon is a registered geologist and manages our 1,200 square foot on-site AASHTO certified lab. He is responsible for providing oversight for field materials testing and inspection services for municipal infrastructure, commercial and private client projects. His responsibilities include: timely coordination of technicians, tests and inspections, preparation of reports, review and analyzing test reports, construction administration and erosion control inspections. Mr. Simon is fully MoDOT certified as an inspector and possesses nine years of experience working for MoDOT as district geologist and senior inspector.



*“The City counts on Cochran to provide the information we need and expertise to deliver quality projects. The City insists upon well thought out and well-designed projects that can be delivered to our residents on time and within budget. Their entire team is great to work with!”*

— Mike Lueck | Parks & Recreation Director, City of Wentzville