Established in 1959, Cochran is an, civil engineering, architectural and interior design, construction materials testing, construction & quality inspection, geotechnical, environmental, and survey firm, that excels at complex projects and solving challenges for our clients.

Cochran specializes in the engineering and design of transportation, related infrastructure, municipal facilities, and site development projects. Our unique blend of in-house services allows us to provide our clients with continuity and better control of the responsiveness to accomplish your project. Cochran is MoDOT qualified and has completed projects in the Northeast, Central, St. Louis and Southeast districts.

Our experienced and skilled team of professionals has MoDOT experience and understands the processes and procedure required. We believe that each client and project has a unique set of needs and constraints. Therefore, we will evaluate existing conditions, recommend practical solutions, and anticipate design/construction conflicts, cost concerns, and present alternatives based on expert architectural and engineering judgment.

Our Leadership
Our staff of over 80+ professionals is managed by the following leadership team -

**Chris Boone, P.E** - President
**Shannon Johanning, P.E**. - Vice President
**David Christensen, P.E**. - Vice President
**Kurt Daniels, P.E**. - Vice President
**Richard Tuttle, P.E**. - Vice President

Our commitment to our clients includes principal involvement in all phases of each project. Cochran’s five principals – Chris Boone PE, Shannon Johanning PE, Dave Christensen PE, Kurt Daniels PE, and Richard Tuttle PE, take personal as well as professional responsibility on the success of all of our projects, and each project receives the individual attention it deserves. They guide the firm in focusing on core values which include the highest of quality and the best creative engineering and design.

CUSTOMER SERVICE PHILOSOPHY
We believe **teamwork, excellence, quality and trust** are the four necessary components to providing outstanding customer service for our clients. The combination of our commitment to these fundamental beliefs, our strong work ethic and track record to meet or beat schedule deadlines has resulted in a 95% return clientele.

Cochran approaches every project with sustainability in mind. Our team focuses on immediate impact opportunities by addressing energy efficiency, material selection, sourcing, water conservation, durability and other environmental issues.
“After completing a number of complex projects with Cochran over the last several years, I can honestly say that there is no better firm that can serve my company’s interests. No matter the complexity of any given problem, Cochran understands what it takes to get things done on time and most importantly, on budget.”

Thomas K. Walter

OUR SERVICES INCLUDE:

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

Cochran Engineers have studied, evaluated and designed solutions for storm water issues on every level, from major developments to individual facilities. Our team has performed storm water engineering services for MoDOT and municipalities, which have included immediate and long-term planning solutions. We have extensive experience with regulatory agencies, specifically the acquisition of permits and approvals.

Storm water 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 land-use characteristics of the drainage area.

GEOTECHNICAL ENGINEERING

Experience and a commitment to quality are the key components of our geotechnical and environmental team. Managed by a professional engineers with more than 25 year 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. Cochran’s lab is AASHTO – CCRL/AMRL certified and US Army Corp of Engineers validated.

OUR SERVICES INCLUDE:

- Foundation design & material 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
CONSTRUCTION MATERIALS TESTING & INSPECTION

Cochran’s technicians are highly trained in conducting field testing and inspections to ensure project specifications are being met. Our technicians are MoDOT, NICET, 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 and USACE validated.

Our construction inspection staff have significant MoDOT and construction inspection experience in accordance with the FAST guidelines. Our Inspectors have the required MoDOT certifications in asphalt, soil density, and concrete; OSHA - 10-hour Training Course in Construction Safety & Health; and 3) Humboldt Scientific Training Course Certification for Radiological Safety and Gauge Use. In addition to field services, our accredited laboratory provides a wide range of soil, asphalt, and concrete testing to ensure all materials used meet project specifications. 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 and CBR
- Atterberg Limits
- Standard and Modified Proctor
- Aggregate Analysis
- Concrete Compression and Flexural Testing
- Shear Strengths
- Unconfined Compressive Strength of Soils

Our Field Services Include:

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

Our Construction Administration Services Include:

- Survey
- Construction Stake-out
- Contract administration
- Construction inspection
- Concrete testing – field and lab
- Nuclear density testing
- Pavement cores after each paving day
- AASHTO lab testing
- Performance records and payment
- Constructability reviews
- DBE - CUF Forms
- Land disturbance forms

P. W. S. D. No. 1 has conducted business with Cochran Engineering for over thirty years, with great satisfaction from our Board of Directors and employees. Each project has been handled professionally and with personal attention from Chris Boone and his staff. Plans and drawings are clear and easy to understand. Field work on projects has always been exceptional. I have great respect for this firm and its staff and every confidence that any future projects will be conducted with the same professionalism and expertise. We will continue to use Cochran Engineering for future projects with
ARCHITECTURAL/INTERIOR DESIGN
Cochran has been providing quality, full architectural services since 1954. Our approach quite simply is client-focused and design-driven. The success of this approach is rooted in our ability to listen and understand the client’s project objectives and to transform those goals into tangible solutions. Our reputation for delivering projects on-budget and on-time has been built on our track-record for honoring our commitments. However, the best testimonial to our performance is our list of clients who have returned time-and-time again to Cochran for their architectural needs.

Our Services Include:
- Architectural Design
- Sustainable Design / LEED-Certified Projects
- Landscape Architecture
- Interior Design
- Space Planning & Tenant Build-outs
- Move Management
- Revit, BIM & 3-D Rendering
- Historical Restoration

SITE/CIVIL ENGINEERING
Our Services Include:
- Site Selection and Due Diligence Services
- Site Redevelopment - Phase 1 and Infrastructure/Demolition Assessment
- Real Estate Acquisition Services
- Land and Master Planning
- Preliminary Cost Analysis and Value Engineering
- Zoning and Entitlement Process
- TIFF/CID/TDD Process
- Site and Civil Engineering
- Permits and Approvals
- Construction Administrative Services
- Transportation Engineering
- Water Resource management
- Low Impact

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 have 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.

DIVERSITY
In addition to diversity among our Cochran team, we make the commitment to increasing our diverse project partnerships. Cochran is working proactively to develop and maintain strong relationships with diverse contractors across the country. Our objective is to develop a diverse and inclusive team on all our projects that will perform the highest quality work in a timely fashion for our clients.