



SERVICES

Roadway Planning and Design

- Reconstruction/ADA
- Resurfacing
- Bridge Approaches
- Signing, Pavement Markings
- Intersection Lighting
- Traffic Signals

Structural Design

- Bridges
- Retaining/Sound Walls
- Culverts
- Foundations

Pedestrian and Bicycle Facilities

- Sidewalks/ADA
- Trails
- Bike Lanes

Drainage/Stormwater

- Hydrology and Hydraulics
- HEC-RAS Modeling
- 2D Modeling

Surveying

- Right-of-Way, Topographic, Hydraulic, LiDAR
- GIS Mapping

Utility Coordination

Planning & Conceptual Studies

Maintenance of Traffic

Site Design and Development

Cost Estimating

Public Involvement

Permitting

Construction Services

EDSI, a minority owned and certified DBE/MBE firm, has built a reputation for excellence by providing project engineering, design, and survey services that fulfill the expectations of our clients and the prime consultants with whom we team. We take pride in our strong work ethic and our record of successful delivery of cost-effective on-schedule projects. Since our inception in 1995, EDSI has successfully completed more than 2,500 projects in Missouri and Illinois.

Our team has extensive experience delivering transportation projects, including roadways, bridges, traffic studies, traffic signals, water resources, trails, sidewalks, and site design, as well as construction inspection and management. Our dedicated and diverse professionals, detailed quality control plan, and client satisfaction program enable the successful completion of every project we undertake.

EDSI has provided project deliverables to the following communities and agencies:

- Missouri Department of Transportation
- Illinois Department of Transportation
- Illinois Tollway
- Jefferson County
- St. Charles County
- St. Louis County
- State of Missouri
- Ameren
- Bi-State Development Agency
- East-West Gateway Council of Governments
- Forest Park Forever
- Great Rivers Greenway
- Gateway Arch Park Foundation
- Illinois American Water
- Metropolitan St. Louis Sewer District
- Missouri Botanical Garden
- Missouri American Water
- Parkway School District
- St. Louis Lambert International Airport
- St. Louis Zoo
- Terminal Railroad Association (TRRA)
- The Nature Conservancy
- University of Missouri – St. Louis
- Washington University School of Medicine
- Cervantes Convention Center
- City of Arnold
- City of Brentwood
- City of Chesterfield
- City of Clayton
- City of Columbia
- City of Crestwood
- City of Dardenne Prairie
- City of Des Peres
- City of Eureka
- City of Florissant
- City of Frontenac
- City of Glendale
- City of Green Park
- City of Hazelwood
- City of Kirkwood
- City of Ladue
- City of Lake Saint Louis
- City of Manchester
- City of O'Fallon
- City of Pacific
- City of Richmond Heights
- City of St. Charles
- City of St. Louis
- City of St. Peters
- City of Sunset Hills
- City of University City
- City of Washington
- City of Wentzville
- City of Wildwood

Our Team



George John, PE

Principal | Founder

George John has over 30 years of responsible experience in several areas of civil engineering including highway and roadway improvement projects, traffic studies and signal design, storm and sanitary sewer projects, environmental impact studies, program management, site and grading plans, and project supervision. George serves as Project Principal and is responsible for providing project management, design consultation, budget and schedule monitoring and quality control reviews.



Brett Brooks, PLS

Principal | Survey and Construction Inspection Group Manager

Brett has 24 years of experience in the surveying and engineering field, and his experience includes data collection, GIS mapping, topographic, boundary, and geodetic surveys. Brett's field staff utilizes the most advanced survey equipment available including LiDAR scanning and UAV (drone) surveying. Brett has managed over 500 projects in the Bi-State area and has gained a reputation for maintaining project schedules and budgets, while delivering high quality services. He keeps open communication with clients to ensure satisfaction with each project. Brett has been repeatedly relied upon to manage the surveys for regionally significant projects. Brett is LPA certified.



Steve Stirnemann, PE

Transportation and Civil Site Group Manager

Steve has over 25 years of experience in highway, roadway, and site design. He has served as senior project manager for many DOT and local agency projects. Steve's experience includes coordinating project goals and deliverables for clients, RES requirements, preparation of construction documents, ADA, drainage calculations and design, grading plans, signing, striping, signals, utility coordination, and traffic control for MoDOT and local agencies. Steve is LPA certified.



Jean LaKemper, PE

Structures and Water Resources Group Manager

Jean has over 35 years of experience in the design, analysis, and rehabilitation of bridges and transportation-related structures. She has served as the project manager, bridge lead, and/or senior bridge engineer for many DOT and local agency projects. Her experience includes project management and structures task management. She has design-build project experience and has also performed in-house quality control reviews and reviews of designs completed by outside consultants. Jean is LPA certified.

Our Project Experience

Roadway and Traffic Signal Design

- Route 364 Striping and Signing, MoDOT
- Route N, Franklin County Safety Improvements, MoDOT
- Route 63 over BNSF Bridge Replacement, MoDOT
- Route N Soldier Pile & Lagging Wall and Drainage Improvements, MoDOT
- I-70 at Riverview Retaining Wall Repairs and Guardrail Upgrades, MoDOT
- I-170 at Airport Road Retaining Wall Repairs and Guardrail Upgrades, MoDOT
- 50/61/67 (Lindbergh Boulevard) Roadway and ADA Improvements, MoDOT
- Route 67 (Lindbergh Boulevard) Traffic Signal Design, MoDOT
- Route W (Grundy County) Bridge Replacements, MoDOT
- Route 76 over Table Rock Lake, MoDOT
- Route 79 over Fox Creek Bridge Replacement, MoDOT
- St. Louis District Safety Design-Build, MoDOT
- West Florissant Avenue Resurfacing and ADA Improvements, St. Louis County DOT
- Reavis Barracks and Green Park Bridge Replacement, St. Louis County DOT
- Berry Road and Big Bend Intersection and ADA Improvements, St. Louis County DOT
- Washington Street Resurfacing and ADA, St. Louis County DOT
- Creve Coeur Mill Road Resurfacing and ADA, St. Louis County DOT
- Wydown Boulevard Resurfacing, City of Clayton
- Lindbergh Boulevard Intersection Signage, City of Creve Coeur
- Forsyth Boulevard Resurfacing/Sidewalks, City of University City
- Allenton Road Improvements, City of Eureka
- On-Call Traffic Engineering Services, City of St. Louis

Bridge/Structural/Hydrology & Hydraulics (MoDOT Projects)

- Route B over Logan Creek Bridge Replacement (*Reynolds County*)
- Route DD over Drainage Ditch No. 23 Bridge Replacement (*Mississippi County*)
- Route I42 over Mill Creek Culvert Replacement (*Ripley County*)
- Route P over Drainage Ditch No. 35 Superstructure Replacement (*Stoddard County*)
- Route T over Turkey Creek Bridge Replacement (*Stoddard County*)
- Route DD over Drainage Ditch No. 1 Bridge Replacement (*Stoddard County*)
- Route O over Moniteau Creek Bridge Rehab (*Cooper County*)
- Route N over Contrary Creek Bridge Replacement (*Osage County*)
- Route H over North Branch Wyaconda River Bridge Replacement (*Scotland County*)
- Route N Soldier Pile & Lagging Wall and Drainage Improvements (*St. Louis County*)
- I-70 at Riverview Retaining Wall Repairs and Guardrail Upgrades (*St. Louis County*)
- I-170 at Airport Road Retaining Wall Repairs and Guardrail Upgrades (*St. Louis County*)
- Route 76 over Table Rock Lake Bridge Rehabilitation (*Stone County*)
- 3 Culvert Bundle - Rehabilitations/Replacement (*Polk County*)
- Route 43 over Turkey Creek Bridge Replacement (*Jasper County*)

Stormwater

- Route E Joachim Slope Stabilization Study and Design, MoDOT
- Route 47 Missouri River Bridge, MoDOT
- Various Stormwater Designs for Multiple St. Louis County Roadway Projects
- Multiple Deer Creek Storm Sewers, St. Louis County
- Stormwater Designs, MSD





ADA, Sidewalks and Trails

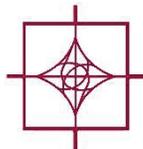
- St. Louis District-Wide ADA Design, MoDOT
- St. Louis District-Wide ADA Inventory, MoDOT
- US 61/67 (Lemay Ferry Road) Roadway and ADA Improvements, MoDOT
- 50/61/67 (Lindbergh Boulevard) Roadway and ADA Improvements, MoDOT
- Route 67 (Lindbergh Boulevard) Traffic Signal Design, MoDOT
- West Florissant Avenue Resurfacing and ADA Improvements, St. Louis County
- Old Jamestown Road Sidewalk Phase III, St. Louis County DOT
- Berry Road and Big Bend Intersection and ADA Improvements, St. Louis County DOT
- Washington Street Resurfacing and ADA, St. Louis County DOT
- Creve Coeur Mill Road Resurfacing and ADA, St. Louis County DOT
- Chesterfield Valley Athletic Complex, City of Chesterfield
- Forsyth Boulevard Resurfacing/Sidewalks, City of University City
- Des Peres Road Sidewalks, City of Des Peres

Survey/Right-of-Way and Utility Coordination

- Route 100 Pavement Resurfacing, ADA, and 5 Bridge Rehabilitations, MoDOT
- Route 366 Pavement Resurfacing, ADA, and Bridge Replacements, MoDOT
- Chester Bridge – Mississippi River & Horse Island Bridge Replacements, MoDOT
- Route 115 Resurfacing, MoDOT
- 2019, 2020, 2022, 2024, 2025 Statewide LiDAR Programs, MoDOT
- Route 125 Intersection Improvements (Green County), MoDOT
- I-70 Corridor Improvements (St. Charles County), MoDOT
- I-70 Eastbound over Missouri River (Blanchette Bridge), MoDOT
- I-70 Corridor Improvements (St. Charles County), MoDOT
- Route 24 Over Mussel Fork River, MoDOT
- Route 47 Missouri River Bridge, MoDOT
- Route 67 (Lindbergh Boulevard) Traffic Signal Design, MoDOT
- Route 180 Improvements, MoDOT
- I-270 over Conway Road, MoDOT
- Route 61 Bridge over Joachim Creek, MoDOT
- Chesterfield Parkway West Improvements, St. Louis County
- Geyer Road Improvements, City of Frontenac
- Phantom Drive Improvements, City of Hazelwood
- North Kirkwood Road Improvements, City of Kirkwood
- Old Highway N, City of Lake Saint Louis
- Route 61 – Highway P Interchange, City of Wentzville

Construction Inspection and Management

- Forsyth Boulevard Resurfacing/Sidewalks, City of University City
- Conway Road Reconstruction, City of Frontenac
- Litzsinger Road, City of Ladue
- Litzsinger Road, City of Brentwood
- IDOT Districts 8 and 9 Various – On-Call



Contact

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