

SERVICES

Roadway Planning and Design

- Reconstruction
- Widening
- Resurfacing
- Bridge Approach

Signing, Pavement Markings,

Intersection Lighting

Transportation-Related

Structural Design

- Bridges
- Retaining/Sound Walls
- Culverts
- Foundations

Pedestrian and Bicycle Facilities

- Sidewalks/ADA
- Trails
- Bike Lanes

Surveying

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

Utility Coordination

Planning & Conceptual Studies

Traffic Studies

Transit Planning

Environmental Studies

Traffic Signal Design

Maintenance of Traffic

Site Design and Development

Slide Repair

Drainage/Stormwater

- Hydrology and Hydraulics
- HEC-RAS modeling

Sanitary Sewer Design

Water Main Design

Cost Estimating

Public Involvement

Permitting

Construction Services

Value Engineering

Innovative Project Delivery



EDSI 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 1,500 projects in Missouri and Illinois.

Our team has extensive experience delivering transportation projects, including bridges, roadways, 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:

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| • Missouri Department of Transportation | • City of Clayton |
| • Illinois Department of Transportation | • City of Columbia |
| • Jefferson County | • City of Des Peres |
| • St. Charles County | • City of Eureka |
| • St. Louis County | • City of Florissant |
| • Bi-State Development Agency | • City of Frontenac |
| • East-West Gateway Council of Governments | • City of Green Park |
| • Forest Park Forever | • City of Kirkwood |
| • Great Rivers Greenway | • City of Ladue |
| • Gateway Arch Park Foundation | • City of Lake Saint Louis |
| • Illinois American Water | • City of O'Fallon |
| • Metropolitan St. Louis Sewer District | • City of Richmond Heights |
| • Missouri Botanical Garden | • City of St. Charles |
| • Parkway School District | • City of St. Louis |
| • St. Louis Lambert International Airport | • City of St. Peters |
| • City of Arnold | • City of University City |
| • City of Brentwood | • City of Wentzville |
| • City of Chesterfield | • City of Wildwood |

Our Team



George John, PE
President and CEO

George has over 30 years of responsible experience in the areas of traffic studies, signal design, highway and roadway improvement projects, storm and sanitary sewer projects, environmental impact studies, program management, site and grading plans, and project supervision. George serves our clients as a Principal Engineer and verifies that the appropriate EDSI resources are available and dedicated to your project.



Josephine (Jo) Emerick, PE
Vice President and Senior Project Manager

Jo has over 30 years of experience in transportation projects, including highway, roadway, transit planning, and design. As a project manager, she has been involved in planning/conceptual design phases through final design to successful construction for MoDOT, St. Louis County, St. Charles County, and numerous local and regional agencies. Jo is LPA certified.



Steve Stirnemann, PE
Transportation and Civil Site Lead

Steve has over 19 years of experience in highway, roadway, and site design. His experience includes preparation of construction documents, ADA, drainage calculations and design, grading plans, signing, striping and signals, utility coordination, and traffic control for MoDOT and local agencies. Steve has completed projects for MoDOT, IDOT, and many Missouri counties and municipalities. Steve is LPA certified.



Jean LaKemper, PE
Structures/Bridge Lead

Jean has over 30 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 MoDOT 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.



Rick Olson, PE
Water Resources Lead

Rick has over 35 years of civil engineering experience including the design of stormwater improvements and sanitary sewers, utility master plans, and municipal water mains. He has been involved in many phases of projects including preliminary and detailed design, final plan and specification preparation, estimating, quality assurance, bidding, and construction management. Throughout his career, he has worked on projects for numerous municipalities, as well as state, county, and federal entities. Rick is LPA certified.



Brett Brooks, LSIT
Survey/ROW and Utilities Lead

Brett has over 18 years of experience in the surveying and engineering field. His experience includes data collection, mapping, topographic, boundary, and geodetic surveys. He has managed over 250 projects in St. Louis, eastern Missouri, and Southern Illinois. Brett has gained a reputation for maintaining project schedules and budgets while providing high quality services. Brett is familiar with the standards requested by MoDOT, the FAA, and the US Army Corps of Engineers. Brett is LPA certified.

Our Project Experience

Roadway Design

- Route 67 (Lindbergh Boulevard) Traffic Signal Design, MoDOT
- Route 79 Bridge Replacements, MoDOT
- Route 47 Missouri River Bridge, MoDOT
- Route 76 over Table Rock Lake, MoDOT
- St. Louis District Safety Design-Build, MoDOT
- East Rock Creek Road Improvements, Jefferson County
- Berry Road and Big Bend Intersection Improvements, St. Louis County
- Marine Avenue, West Adams Avenue/Ballas Road, and North and South Road Improvements, St. Louis County
- Chesterfield Valley Athletic Complex, City of Chesterfield
- Wydown Boulevard Resurfacing, City of Clayton
- Lindbergh Boulevard Intersection Signage, City of Creve Coeur
- Forsyth Boulevard Resurfacing/Sidewalks, City of University City
- Washington Avenue Streetscape, Grand Center
- Perimeter Improvements, Missouri Botanical Garden

Bridge/Structural

- Route N over Contrary Creek Bridge Replacement, MoDOT
- Route DD over Drainage Ditch No. 1 Bridge Replacement, MoDOT
- Route T over Turkey Creek Bridge Replacement, MoDOT
- Route 76 over Table Rock Lake Bridge Rehabilitation, MoDOT
- I-44/I-270 Mraz Interchange Ramp Bridge Design, MoDOT
- Route 79 over Ramsey Creek and Fox Creek Bridge Replacements, MoDOT
- Liberal Arts Bridge, City of St. Louis
- Watkins Creek (Barrier Wall), MSD
- Grand Glaize (Tank Modifications, Junction Chambers), MSD

Stormwater and Hydrology/Hydraulics

- Route N over Contrary Creek Bridge Replacement, MoDOT
- Route DD over Drainage Ditch No. 1 Bridge Replacement, MoDOT
- Route T over Turkey Creek Bridge Replacement, MoDOT
- Route E Joachim Slope Stabilization Study and Design, MoDOT
- Route 47 Missouri River Bridge, MoDOT
- Multiple Deer Creek Storm Sewer, St. Louis County
- Stormwater Designs, MSD

Sidewalks and Trails

- Berry Road and Big Bend Intersection Improvements, St. Louis County
- Chesterfield Valley Athletic Complex, City of Chesterfield
- Forsyth Boulevard Resurfacing/Sidewalks, City of University City
- Des Peres Road Sidewalks, City of Des Peres
- Feise Road Bike and Pedestrian Trail, City of O'Fallon
- Washington Avenue Streetscape, Grand Center





Survey/Right-of-Way and Utility Coordination

- I-70 Eastbound over Missouri River (Blanchette Bridge), MoDOT
- I-70 Corridor Improvements (St. Charles County), MoDOT
- Route 24 Mussel River Bridge Replacement (Chariton County), MoDOT
- Route 47 Missouri River Bridge, MoDOT
- Route 67 (Lindbergh Boulevard) Traffic Signal Design, MoDOT
- Route E Joachim Slope Stabilization Study and Design, MoDOT
- Route 180 Improvements, MoDOT
- I-270 over Conway Road, MoDOT
- Route 61 over Joachim Creek, MoDOT
- Providence Road (State Route 163) and Business Route I-70, City of Columbia
- Conway Road Reconstruction, City of Frontenac
- Route 67 (Kirkwood Road) Signal Optimization and Interconnect, City of Kirkwood
- Forsyth Boulevard Resurfacing/Sidewalks, City of University City
- Route 61 – Highway P Interchange, City of Wentzville

Traffic Studies and Traffic Signal Design

- Route 67 (Lindbergh Boulevard) Traffic Signal Design, MoDOT
- I-44/I41 Design-Build, MoDOT
- I-70 Corridor Improvements (St. Charles County), MoDOT
- Marine Avenue, West Adams Avenue/Ballas Road, and North and South Road Improvements, St. Louis County
- Forest Park Traffic Study, City of St. Louis
- Carondelet Park Traffic Study, City of St. Louis
- Ward Capital Improvement Projects, City of St. Louis
- Route 67 (Kirkwood Road) Signal Optimization and Interconnect, City of Kirkwood
- Forsyth Boulevard Resurfacing/Sidewalks, City of University City

Site Design and Development

- Chesterfield Valley Athletic Complex, City of Chesterfield
- Clarkson Enhancement Project, City of Chesterfield
- Mid-County Branch, St. Louis County Library
- School of Medicine Building Addition, Washington University
- Parking Lots, Washington University
- Building Expansion, Center of Creative Arts (COCA)
- Perimeter Improvements, Missouri Botanical Garden

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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