CELEBRATING 50 YEARS OF SERVICE
In 1966, Herbert Johnson, Gerald Brickell, and Edward Mulcahy formed JBM Associates Engineers and Planners as traffic experts to help the Kansas City area adapt to its growing transportation demands. Twenty years ago we re-branded the firm under the name of TranSystems. This name change was done to underscore our focus as a firm on transportation. By having all of our focus on transportation – we do it better.

Since then, TranSystems has expanded coast to coast to offer transportation services encompassing the entire multi-modal range, from roadway networks and passenger rail expansion to freight rail intermodal facilities and airport connections. This growth can be largely contributed to the outstanding engineering and planning services TranSystems has provided to Missouri communities, MoDOT and Midwest departments of Transportation.

Today, TranSystems is a full service multi-modal transportation consultant comprised of nearly 900 professionals in 35 offices across the nation. After 50 years of service, we are still proud to say our company is – and always has been – based in Missouri.

RELATIONSHIPS
TranSystems has developed many deep relationships with the communities, government agencies and transportation stakeholders in Missouri. Our relationships with key individuals and our knowledge of transportation organizations in Missouri will help your local agency reach it’s goals. For example, we have worked with every Class 1 railroad in Missouri as well as every environmental review agency in the state. Our 50 years of experience has taken us to every corner of Missouri and provided staff the opportunity to work with more than 100 communities. These relationships and knowledge are available for your on-call assignments.

“From the public meeting to the ribbon cutting, TranSystems exceeded expectations. On a scale from one to ten, they’d get an 11.”
Jeff Sell, Asst. Public Works Director, City of Blue Springs, MO

“TranSystems has consistently done exemplary work for Platte County.”
Brian Nowotny, Director, Parks & Recreation, Platte County, MO

“TranSystems has done a great job for the city over the last years. They have impacted many of our larger projects.”
Mark Montgomery, Asst. City Engineer, City of Kansas City, MO

AREAS OF EXPERTISE
Planning Services
- Capital Programming
- Freight Mobility
- Urban, Regional and Community Planning

Preliminary and Final Design Services
- Surveying
- Highway and Street Design
- Bridge Design and Inspection
- Architecture
- Civil / Structural
- Feasibility and Impact Studies
- Bicycle/Pedestrian Trails and Sidewalks
- Routing Analysis
- Signaling, Optimization & Lighting Traffic
- Utility Planning and Relocation

Environmental Services
- Assessments
- Categorical Exclusions
- Impact Statements
- Noise and Air Quality Analysis
- Permitting and Document Preparation
- Socioeconomic Analysis Studies

Construction Services
- Administration
- Arbitration and Mediation
- Management, Inspection and Materials Testing
- Surveying, Staking and As-Built

Other Specialty Services
- Intelligent Transportation Systems (ITS)
- Geographic Information Systems (GIS)
- Public Involvement
- Safety Training
- Transportation Policy Consulting
- Transportation Research

Security Services
- Security Program Design and Development
- Operational and System Auditing
- Assessments and Planning
- Emergency Preparedness and Recovery
- Facility Security Design
- Strategic Master Security Planning
PROJECT EXPERIENCE

**Route 41 over Lamine River – MoDOT Bridge Division**
TranSystems completed design services for this bridge replacement project located approximately 1.5 miles north of I-70. The bridge was replaced with a NU-type prestressed concrete girder bridge. TranSystems services included the preparation a design layout complete with geotechnical recommendations, signed and sealed bridge plans, as well as special provisions and estimates.

**Missouri River Runner/Union Pacific Second Main Track Preliminary Engineering & NEPA – MoDOT Multi-modal Department**
Working with Union Pacific Railroad, the FRA and MoDOT, TranSystems completed NEPA documentation and preliminary engineering for the construction of an approximately 18-mile segment of new double track on the predominately single-track UP Sedalia Subdivision. The track runs from Lee’s Summit to Strasburg, Missouri. The purpose was to enhance the passenger transportation network in Missouri by designing for emerging high speed passenger rail service.

**Route 92 Bridge over Route 45 and BNSF – MoDOT Kansas City District**
Construction inspection services for the replacement of the Route 92 Bridge over Route 45 and the BNSF. Services consisted of construction inspection for the bridge replacement and roadway work, including QA inspections for MoDOT’s resident engineer to verify the contractor’s QC performance. TranSystems’ staff served as an extension to MoDOT staff, following internal construction management culture and administrative processes, including extensive experience with SiteManager. TranSystems’ experience and capacity to successfully interact with BNSF Railway also played an important role in the project.

**Route 47 & Route 100 Traffic Counts & Signal Optimization – MoDOT St. Louis**
TranSystems collected traffic data and performed a variety of tasks related to signal optimization for 19 signals on Routes 47 and 100. Preliminary tasks included field review of existing conditions, traffic data collection, Synchro/TruTraffic model development, and before travel time runs. Once existing traffic models were built, signal timing optimization was conducted, which included left turn time of day analysis, calculation of clearance intervals, development of diversion plans, and review of locations with excessive delay. Travel times were completed again to determine the effects of new signal timing after timing implementation and fine-tuning. The result of the project was an average of eight percent decrease in travel times along both corridors.

**US-50 & Blackwell Road Interchange – City of Lee’s Summit, MO**
This project includes construction of a new interchange and frontage roads on US-50 at Blackwell Road in Lee’s Summit, Missouri. This project will implement the US-50 Corridor Plan, completed by TranSystems. Services include survey, concept development, traffic analysis including an and ambient noise analysis development of an access justification report, preliminary design and final design. A variety of interchange concepts were assessed, and the roundabout concept was the preferred alternative approved by the city. A Categorical Exclusion-2 was prepared to preserve the possibility of the City seeking federal funding for construction.

- NW Prairie View Rd & I-29 Right-of-way Survey (On-Call) – MoDOT Kansas City District
- Route N Coordinated Signal Timings – MoDOT St. Louis District
- US-24 & Route 131 Roundabout Design (On-Call) – MoDOT Kansas City District
- Beardsley Road Emergency Inspection and Repair Design – City of Kansas City, MO
- US-40 & Phelps Road Construction Inspection (On-Call) – City of Kansas City, MO
QUALITY ASSURANCE
TranSystems has a well-established process to manage our projects. We develop a project work flow plan, a design schedule and design task budgets before we start work and monitor each on a weekly basis. We communicate with staff and subconsultants, informing them of what we need and when we need it. If appropriate, we make adjustments to the individual pieces, yet maintain the overall schedule and budget.

We have found project management for each MoDOT project to be unique. We adapt our style of communication to what works for you and your preferred method to receive information. Whether we use email, or written weekly updates, we have prepared a wide range of tools to communicate with MoDOT and will tailor our methods to what works best for you.

We will also prepare a project-specific quality assurance plan. Our philosophy is to check all calculations and deliverables close to the source. First, each employee checks their work. Then, prior to the information being used by another party, the task leader will check the work. Third, the project manager and QA engineers will review the information and how it corresponds with other aspects of the project. Lastly, we will conduct a constructability review with one of our senior bridge and highway construction managers.

PAST PERFORMANCE – MoDOT awarded TranSystems:
• 5.0 of 5.0 for Bridge Design for the kcICON North Approach
• 4.9 of 5.0 for Roadway Design for the kcICON North Approach
• 5.0 of 5.0 for Final Bridge plans and an overall score of 4.8 for I-44 over BNSF

No other recent performance evaluations from MoDOT are available

COST SAVINGS
TranSystems has provided practical design and innovative funding solutions on many projects. We will work with you to determine which solutions are feasible from a technical and political point of view. TranSystems, in collaboration with MoDOT staff, has produced the following cost savings on projects.

\textbf{I-435 / I-70 ATC and Value Engineering, Kansas City, MO}
TranSystems teamed with Clarkson Construction to develop an Alternate Technical Concept, (ATC). The ATC we created realigned the merging ramps, eliminated a bridge along with a significant amount of rock cut. The savings was calculated to be $2 million by Clarkson Construction. The ATC required modification to the Federal Access Justification Report (AJR) for the project. The FHWA was not comfortable with this change in the short time frame needed to hold to the bid date, so they suggested the modification be submitted as a Value Engineering (VE) proposal if Clarkson Construction won the bid. Clarkson Construction did win the bid and the VE was accepted saving MoDOT $2 million on this project.

\textbf{Route 9 Widening, Riverside, MO}
As their revenues went flat and construction costs went higher MoDOT adopted a philosophy of \textit{Practical Design} for their project development. Using this new design direction TranSystems designed the widening of Route 9 with narrower shoulders and rock fill embankment which saved on right-of-way costs and grading. The project is generally on fill and abuts the Missouri River bluffs so every roadway foot wider was very expensive. Total savings were estimated at $200,000.

\textbf{I-49 (US-71) and Route 291 Interchange, Harrisonville, MO}
When the TDD Board informed MoDOT they would not be able to provide the project the funding they had originally projected, the design team conducted a value engineering study to find cost saving alternatives. Working together with the TDD and the City of Harrisonville, TranSystems and MoDOT found a total savings of $2 million.
PROVEN QUALITY OF SERVICE
MoDOT has had 11 projects constructed within the last 10 years that were designed by TranSystems. We are not aware of a single issue with the quality of our plans on these 11 projects. Our design staff is highly proficient in MoDOT’s Engineering Policy Guide and how plans should be detailed to MoDOT standards. We understand that quality saves time and time is of the essence.

DIVERSITY
TranSystems is committed to a diverse internal workforce. We broadly advertise open positions and recruit at universities that have a historically heavy minority or female enrollment. Women and minority employees are encouraged to participate in our internal mentoring program and career development program. In addition to having a diverse internal workforce, we build diverse teams by regularly teaming with DBEs.

MoDOT PREQUALIFICATION
TranSystems is current on all prequalification requirement. Our staff is available and ready to serve you immediately.

- MoDOT E-Verify 4/21/2017
- Financial Prequalification 5/31/2017
- Federal Aid Basic Training 12/30/2018
- Bridge Forms 11/16/2018
- Bridge QC/QA 11/16/2018

“TranSystems is an outstanding company to work with for roadway project. From conceptual design through project completion the staff is anticipating and heading off potential issues.”
Chris Sandie, Director of Public Works – City of Blue Springs, MO

“People are amazed. Without a question it is more efficient and safe.”
Dan Niec, MoDOT KC District Engineer – I-70/Woods Chapel Road DDI

“I’ve only received positive comments about how traffic flows through this interchange now. It was a great improvement for the area.”
Shelie Daniel, PE, MoDOT Area Engineer – I-35/Route 291 Interchange

“For more information please contact:
Frank Weatherford
(816) 329-8775
flweatherford@transystems.com

“John Zimmermann and TranSystems are excellent partners in the very challenging environment of transportation planning, improvements and maintenance.”
Jeff Fisher, Director of Public Works – City of Belton, MO