

Transportation

LJA Engineering

713.953.5200

LJA.com

LJA
TRANSPORTATION

UPDATED 8.16.23





Transportation

It's about more than just the destination. It's about designing roads and bridges that are built with safety in mind to ease congestion, create enhanced mobility, and provide traveling options. It's about minimizing construction impacts to the traveling public. It's about being engaged in the communities where our projects are located. And, it's about integrating innovative engineering that aligns with the future of roadway and transportation technology.

Our 48 years of success in the realm of transportation has taught us that it is an ever-evolving infrastructure. The knowledge of our seasoned engineers is enhanced by the best and brightest young engineers who excel at 3D simulations and traffic modeling. With these essential tools in place, we continue to build our experience in every facet of the comprehensive planning, design, and cutting-edge technology that drives transportation and keeps people on the move where they live, work, and play.

We are TxDOT precertified and LGPP (Local Government Project Procedures) certified. LJA Transportation staff has worked on projects in all 25 TxDOT Districts.



Structures

The LJA Structural Group is one of the largest teams in the state. With 37 offices across Texas, our local experts understand the unique requirements that affect bridges by region, such as Gulf Coast, Hill Country, and North Texas. Our capabilities are vast, solving problems that range from complex highway bridges to local bridges to structures such as pump stations and marine/coastal needs.

Toll Operations

- Work with multiple tolling agencies across state.
- Have developed specific projects that successfully relieve congestion at critical locations, providing improved access and connectivity to local road system.
- Conversion of toll plazas from cash system to electronic tolling

Traffic

LJA provides full-service traffic design including signal design, illumination, turn lanes, and signing and pavement markings. Our team experienced at Permitting for driveways, turn lanes, and other new access requests, in particular in Houston Region

- Experts at Traffic Impact Studies, traffic projections, Interstate Access Justification Reports, etc

Drainage

- We understand the unique preferences of TxDOT Drainage vs other agencies.
- Relationships with Drainage staff in most major TxDOT Districts.
- Understand mitigation requirements of local jurisdictions.
- Work with LJA H&H in design of regional hydrologic and mitigation studies, and pump station design

Construction Phase Services

- Full service traffic design including Traffic signal design, illumination, and signing and pavement markings.
- Houston and North Texas including turn lanes
- Experienced at Permitting for driveways, turn lanes, and other new access requests, in particular in Houston Region
- Experts at Traffic Impact Studies, traffic projections, Interstate Access Justification Reports, etc.

Program Management

- Assisting local counties in Road Bond projects.
- Relationships with local elected officials and Engineering Department staff.
- Help integrate local private work and utilities into County programs.

Roadway Design

- We do it all. Feasibility studies, Schematic/ Environmental, and Final design (PS&E). Complex freeways to county roads to rural off system bridges
- We have worked in each TxDOT districts in State. Major urban centers such as Houston, San Antonio Austin, and Metroplex, but other urban and rural areas in Valley, El Paso, Central Texas, NE Texas
- Work with local counties including Harris, Fort Bend, Montgomery, Brazoria, Galveston and Waller.
- Cities including Houston, Dallas, Sugar Land, Pearland, Alamo Heights,
- Our Relationships HELP! Know projects going on in regions.

Transportation Services

- TxDOT/County/City Transportation Planning and Design
- Freeway/Toll Road Planning and Design
- Multi-level Interchange Planning and Design
- Urban and Rural Highway/Roadway/ Street Design
- Corridor and Route Studies
- Feasibility Studies
- Schematic Design
- NEPA/Environmental Document Preparation
- PS&E (Plans, Specifications, and Estimates) Documents
- Thoroughfare Planning
- Traffic Impact Analysis
- Traffic Engineering Studies
- Traffic Signal Timing and Design
- Intelligent Transportation Systems
- Pedestrian Facilities
- Parking and Circulation Studies
- Illumination
- Signage and Pavement Markings
- Retaining Walls
- Bridge Layouts, Design, and Detailing
- Complex/Exotic Bridge Design
- Hydrology & Hydraulics
- Traffic Control/Construction Sequencing
- Utility Coordination and Relocation Design
- TxDOT Precertified
- LGPP (Local Government Project Procedures) Certified