

# LJA Engineering Expands Capabilities

## Firm Grows Public Infrastructure Discipline

LJA Engineering & Surveying, Inc. and SCL Engineering are pleased to announce the merger of the two firms. The firm will operate under the name of LJA Engineering & Surveying, Inc. As a result of the merger, LJA will maintain two offices in the Houston area with corporate headquarters remaining in the west Houston Westchase area and SCL's current offices located in east Houston on the IH-10 corridor.

This merger represents the joining of two successful consulting engineering firms with complementary strengths. "SCL brings to the firm an expertise and accomplished history in the design and construction management of water and wastewater facilities for the public and private sectors. They have a 28-year history of enabling clients to define

and solve civil engineering challenges," says Calvin Ladner, PE, the firm's President and CEO. "This history, combined with LJA's track record in land development, transportation and drainage engineering and design, as well as our expertise in planning and landscape architecture, surveying, and construction management, makes us a full-service consulting engineering firm able to address almost any infrastructure design project."

With the merger, LJA's client base expands to include municipalities throughout the greater Houston area, and with the two offices, the firm is conveniently located to its clients and projects. LJA also maintains an office in The Woodlands, supporting its engineering and planning efforts in Montgomery County and offices in

Austin and San Antonio, serving the firm's clients in Central Texas.

SCL principals and employees will continue to serve their existing clients. States Stan Cargill, SCL President, "This merger makes a lot of sense. Both firms possess significant strengths in different areas and bringing the two firms together allows us to provide not only a wider range of services to our clients, but much greater depth and experience in these services."

LJA is a full-service consulting engineering firm serving the public and private sectors in Texas. With offices in Houston, Austin, San Antonio and The Woodlands, the staff of LJA includes over 300 experienced civil engineers, transportation engineers, structural engineers, hydrologists, construction managers, land planners, designers, technicians and surveyors.



(L-R, Standing) Charles Beere, PE, Jeff Collins, PE, James Moehlman, PE, Darrell Morrison, PE  
(L-R, Seated) Calvin Ladner, PE, Stan Cargill

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LJA has full in-house capabilities to provide comprehensive professional engineering services to the public and private sectors. The firm's staff is comprised of civil engineers, traffic and transportation engineers, hydrologists, construction managers, land use planners, designers, technicians and surveyors. Below are brief cameos of key staff members of LJA's Public Infrastructure Discipline.



Jeff P. Collins, PE, PMP, **Senior Vice President**

Jeff is part of LJA's Management Committee, and manages the firm's Public Infrastructure Discipline. He has more than 25 years of project management and engineering experience for a diverse range of local, state, national and international clients. His broad public works experience includes feasibility studies, program management, preliminary engineering, final design and construction phase services for local collector and arterial roadways, toll and non-tolled highways, traffic improvements, drainage systems, sanitary sewer collection lines, wastewater treatment plants, water distribution systems, and design/build projects.



Stan Cargill, **Vice President: Public Works**

Stan has more than 37 years of technical experience in all aspects of management, planning, design, and implementation of transportation/paving, drainage, water conveyance, and water and wastewater treatment systems for local, state, and federal clients. For numerous public and private-sector clients, he has provided a wide range of services, including feasibility studies, report preparation, start-up assistance, funding and permitting, operator training, construction management, and specific problem solving.



Darrell Morrison, PE, **Vice President**

Darrell has over 23 years of experience in technical and field aspects of civil and environmental engineering. His experience includes municipal water/wastewater treatment facilities, water distribution and wastewater collection system design, water planning and development, transportation/roadway planning and design, storm drainage planning and design, program management, project management, environmental remediation design, facilities planning, land planning and development, and construction management.



Charles W. Beere, PE, **Senior Project Manager**

Charles has 34 years of technical experience in management, planning, and civil engineering design of drainage, water and wastewater treatment facilities, and transportation civil engineering projects for local, county, and state agencies throughout Texas. His experience also includes utility relocations, design, and construction management.



Daniel J.C. Cops III, PE, **Division Manager: Highway/Bridge**

Dan has more than 20 years of experience in highways and bridges, buildings, foundations, retaining walls, seismic retrofit, and drainage structures. Dan's experience encompasses roadway design, hydrology and hydraulics including pump stations, and structural design and analysis, including retaining wall and bridge layouts. His responsibilities have included project management, design supervision, project engineering, structural design, civil design, specification development, and cost estimating.



Linc Wright, PE, **Division Manager: Traffic/Roadway**

Linc has over 20 years of experience in traffic signal systems, traffic control, traffic engineering, traffic planning, and transportation planning. Linc also has experience in computerized traffic management systems, traffic operations and maintenance, and roadway and drainage design. His background also includes ramp meter operation and maintenance, ITS Priority Corridor project management, maintenance of traffic management systems, and numerous traffic related studies including traffic warrant studies, traffic management plans, drainage studies, and weight limit studies.



**David H. Zuhlke, PE, CFM, *Division Manager: Water Resources***

David has over 14 years of civil engineering experience in the public and private sectors of industry. He has experience in the design of detention facilities, storm water quality management systems, commercial site drainage, sanitary sewer lift stations, channel improvements, and roadway drainage. He has completed roadway drainage projects including design of culverts, storm sewers, inlet sizing and channels including numerous bridge scour analyses.



**Roland E. Gamble, PE, *Senior Consultant***

Roland has more than 45 years of experience in the engineering and management of transportation projects. Roland worked for TxDOT Austin District for over 30 years, where he held positions in transportation planning, geometric design, and project administration. In 1991, he was TxDOT's liaison with the Texas Congressional Delegation during the development of the ISTEA legislation. In 1992 and 1993, he directed TxDOT's Division of Environmental Affairs with responsibility for coordination, planning and oversight of environmental activities.



**Michael E. Cavalier, PE, *Senior Project Engineer***

Mike has 31 years engineering experience and has supervised both private and public-sector projects dealing with water works, wastewater systems, roads, drainage facilities, reservoirs, and recreational facilities. Mike's experience includes all phases of design planning, preparation of plans and specifications, project management, and construction administration for sewer and wastewater systems; ground and surface potable water systems; streets, roads, and bridges; hydraulic and hydrologic analyses; drainage and stormwater facilities.



**Keith W. Monroe, RPLS, *Division Manager: Surveying***

Keith is responsible for the management and supervision of the surveying and mapping division and ensuring that quality and cost-effective services are provided to our clients. He has over 27 years of experience in land surveying including horizontal and vertical control, alignment, and topographic and boundary surveys. He also researches records at city, county, and state levels performing all necessary calculations including field note reduction, traverse adjustment and boundary determination, and directing draftsmen in the preparation of maps and plats.

## Missouri City Expands Steep Bank/Flat Bank Wastewater Treatment Plant to 3.0 Million Gallons Per Day

Growth projections for the City of Missouri City's customer utility districts indicated that the existing 1.5 million gallons per day (MGD) plant would be at 90 percent capacity by the first quarter of 2009. LJA is providing engineering design services as well as construction management services for the expansion of the plant to 3.0 MGD.

LJA's design will provide the City of Missouri City with a cost-effective, expanded wastewater treatment plant that addresses existing operation and maintenance issues while continuing to produce a compliant discharge effluent.



**LOCATION:**

Fort Bend County, Texas

**CLIENT:**

City of Missouri City

**PROJECT TYPE:**

Wastewater Treatment Plant Expansion

This newsletter is published for Clients and Friends of the firm.

**LJA Engineering & Surveying, Inc.**

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## LJA Project News

**TxDOT Austin On-Call Services, TxDOT Austin District.** LJA is currently working with the TxDOT Austin District on an indefinite deliverable contract. The work includes a broad range of professional and project management services to complete various tasks related to transportation planning, development, analysis and design projects for the Austin District. They include 4R and 3R criteria projects, and include transportation engineering studies, toll viability assessments, environmental studies, environmental document preparation, systems planning, feasibility studies, preliminary schematics, PS&E, and surveying and mapping. Work may also extend to adjoining TxDOT Districts if warranted by the work authorization. LJA's work authorizations have included:

- US 290 East Schematic: US 183 to FM 973

LJA completed the schematic design for a 9-mile section of a four-lane divided facility to a high-speed access-controlled tolled facility with six lanes (three mainlanes, three frontage) in each direction. Mainlanes and ramp locations were designed to accommodate open road tolling. The project involved the development of multiple alternatives and selection of a preferred alignment.

LJA work also included public involvement services and preliminary drainage studies including detention pond sizing and ROW determination.

• **Project Management Support: Austin District Phase II Toll Program** LJA staff, located in the TxDOT Austin District offices, are supporting the development of projects for their Phase II Toll Program. LJA is providing management, scheduling, review, coordination, and administrative services for 13 Phase II Toll Projects with a total estimated construction value of \$11.3 billion.

**Environmental Engineering Consultant Services, TxDOT Environmental Division.** Working in a subconsultant role, LJA is helping complete a contract with TxDOT's Environmental Division relating to storm water management duties required by the TCEQ under Phase II Municipal Separate Storm Sewer System (MSA) general permit requirements. The contract's principal tasks include:

- Assisting districts in determining minimum control measures
- Preparing district-appropriate SWMPs
- Completing fieldwork for outfall mapping for the districts

LJA's work authorizations have included:

• **Storm Water Management Plans for TxDOT, Pharr and Bryan Districts** LJA is managing the fieldwork and preparation of the Storm Water

Management Plan (SWMP) for the urbanized areas within the districts. Urbanized areas were defined by a residential population of 10,000 people and a minimum average density of 1000 people per square mile. All TxDOT outfalls discharging into a Waters of the United States were mapped with GPS equipment and recorded for the Pharr and Bryan Districts. A SWMP was created to assist the Pharr District with an inventory of outfalls as well as identifying BMPs to use over the next five years as part of their MS4 permit. Coordinating with District personnel during the SWMP development stage was key to providing the appropriate minimum control measures in the plan.

## People News



Brian Treese, PE, recently received his Professional Engineer License from the State of Texas. Brian works in the Hydrology and Hydraulics Department and is a graduate of Texas A&M University.



Matt Johnson, PE, recently received his Professional Engineer License from the State of Texas. Matt works in the Transportation Department and is a graduate of Texas Tech University.