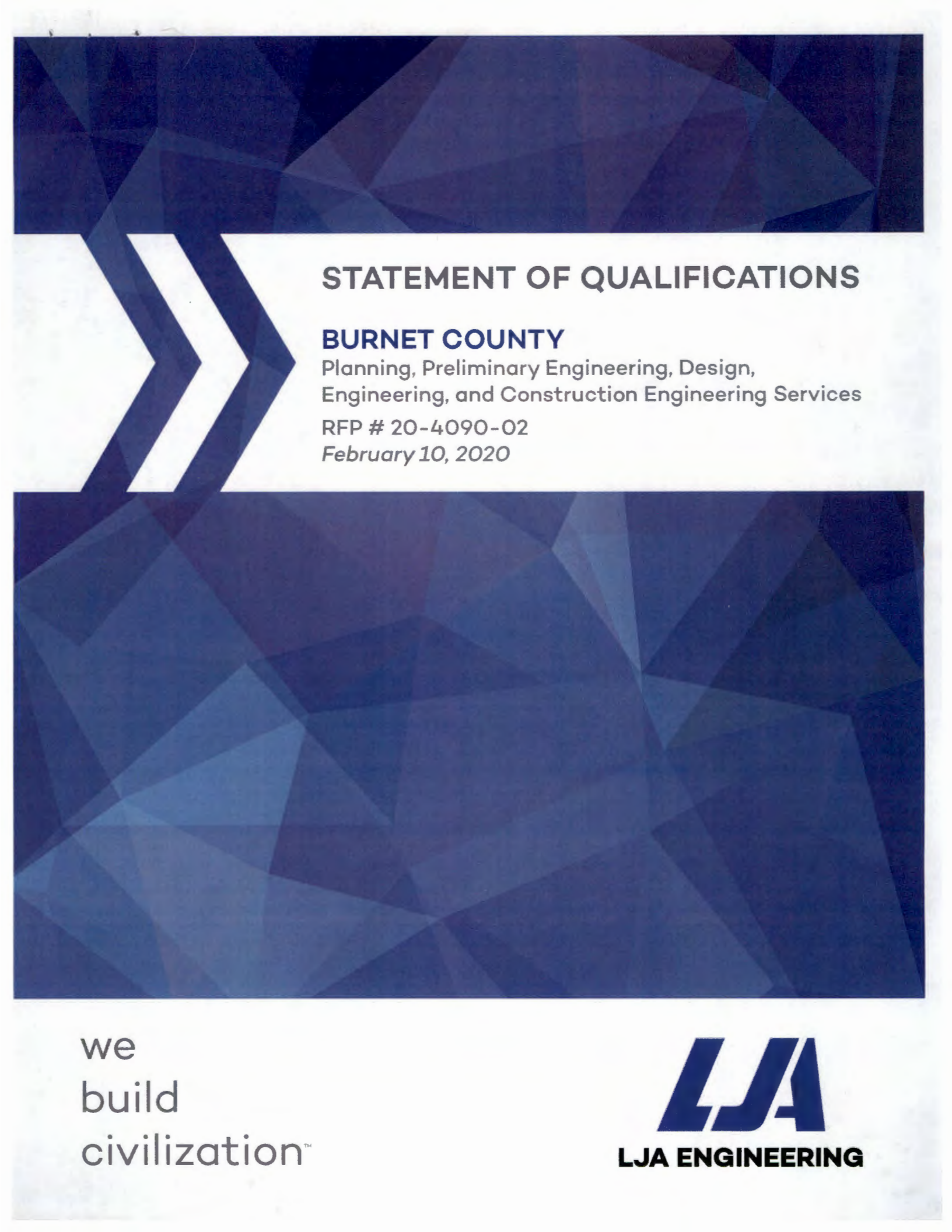




STATEMENT OF QUALIFICATIONS

BURNET COUNTY

Planning, Preliminary Engineering, Design,
Engineering, and Construction Engineering Services

RFP # 20-4090-02

February 10, 2020

we
build
civilization™


LJA ENGINEERING

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LJA ENGINEERING

» 1 - CAPABILITIES/EXPERIENCE/REFERENCES

PRIME CONSULTANT

LJA is a multi-discipline, consulting engineering firm, serving both the public and private sectors. What differentiates LJA is our unified collaboration and integration with our client partners, and our ability to manage projects from concept to completion. Work for the County's projects will be performed out of LJA's Austin and Round Rock offices in conjunction with our team of local subconsultants.

Formed in 1972, employee owned and operated, the LJA staff is highly motivated and committed to providing responsive, high quality engineering services to the City. With 32 offices nation-wide, the staff of LJA includes over 1,100 experienced civil, transportation, public works, environmental, and coastal engineers, hydrologists, environmental specialists, land planners, landscape architects, construction managers, designers, GIS specialists, technicians, and surveyors.

LJA Infrastructure (a wholly owned subsidiary of LJA Engineering) was awarded #1 on the Aggie 100 list in 2018 and #3 in 2019. LJA Engineering has also made the list numerous times, the most recent in 2016.

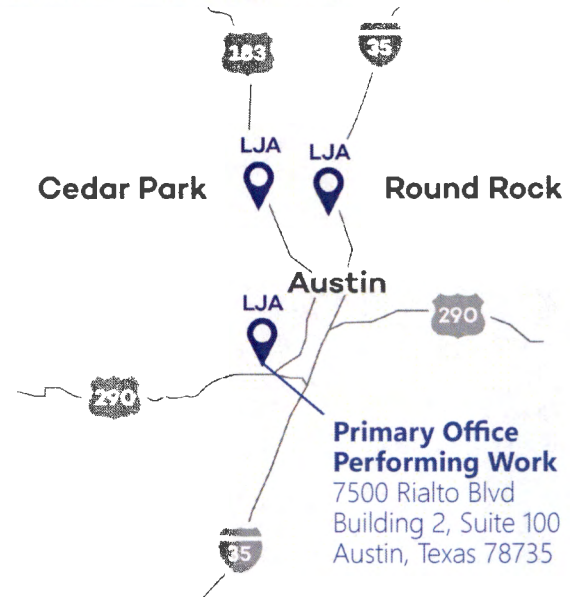
MANAGEMENT/ORGANIZATION

The LJA team is a traditional structure with a Project Manager as the Project Lead and Task Leaders leading the technical development of critical services. Each key staff member is indicated by their name, years of experience, and project role they are leading. Our team understands and commits to the County's following performance expectations:

- Reduce performance periods via efficient scheduling
- Provide cost accountability
- Provide quality control
- Adherence to timelines/provisions contained in contract's terms and conditions
- Perform construction document management

This LJA team has a proven track record of delivering high quality products meeting client needs while remaining conscientious of the budget. Our continual repeat business is evidence of the trust we share with our clients.

CENTRAL TEXAS OFFICES



PROJECT CONTACTS

ZACH RYAN, PE

Project Manager, Austin

512.479.4760 // zryan@lja.com

KENNETH SCHROCK, PE

Principal-in-Charge, Austin

512.439.4732 // kschrock@lja.com

CAPABILITY TO PERFORM TASKS

LJA's Project Lead, Key Task Leaders, and overall staff have the necessary capacity and availability to execute all the engineering services relating to the Planning, Preliminary Engineering, Design Engineering and Construction Engineering of the projects within the anticipated schedule. The Project Principal, Ken Schrock, is a Senior Vice President at LJA and is fully committed to provide the necessary local staff to perform all projects assigned by the County.

LJA has set up the team so that Project Manager, Zach Ryan, will be available at all times to attend all meetings. Zach is centrally located, committed to the project, has complete responsibility/control of project staff, and will be the point of contact for the County. Communication within the LJA team is facilitated and structured to promote clear lines of responsibility and coordination, both within the LJA team and with the County.



REFERENCES

JERRY BORCHERDING

County Engineer
Hays County
512.393.7385

ALAN GREEN

Project Manager
City of Cedar Park
512.401.5352

STAFF SIZE BY AREAS OF EXPERTISE

Our staff by expertise are represented by the two tables to the right, one for the LJA: Central Texas and LJA: Total Firm (one discipline per employee), which includes a count for all 32 offices.

QA/QC POLICY

At LJA, ensuring each and every project is produced correctly and completely are of the greatest importance. Our clients' full satisfaction is the foundation of our team's reputation of excellence. LJA's in-house QA/QC procedure is overseen by Danny Miller, PE, and provides for a structured program from project initiation through final delivery of designs, construction engineering, and project close-out. For each project, LJA provides regularly scheduled updates and project specific progress reports to our clients. According to the schedule and preferences of the client, progress reports are typically delivered in progress meetings to allow the clients to comment and communicate any questions, concerns or changes they feel are needed in the most efficient and open manner possible.

The objective of LJA's Quality Control Plan is to provide the confidence that the work products will conform to the project's goals and objectives as defined and communicated by the County. In addition, the Plan establishes deliberate, thorough, and effective control process guidelines used for quality evaluation and measurement. Guidelines include:

- Specific project requirements and criteria
- Project constructability
- Document technical quality
- The City's established construction budget
- Methodology for implementation of a construction administration process

With those guidelines in mind, LJA will ensure plan accuracy and constructability through its comprehensive QA/QC Program.

LJA: CENTRAL TEXAS

Disciplines	CTPI Employees
Professional Engineers	20
Transportation Roadway and Drainage	15
Utilities	15
ROW Acquisition Specialists	3
Graduate Engineer	16
Designer & CADD Operators	5
Environmental Specialists	20
Land Development	80
Technical & QA/QC Specialists	3
Construction Manager	2
Total Number of Employees	179

LJA: TOTAL FIRM

Discipline	Total LJA Employees
Project Managers	85
Transportation Engineers	98
Hydraulic Engineers	35
Hydrologists	12
Structural Engineers	16
Water Resources Engineers	15
CADD Technicians	66
Land Surveyors	20
Survey Personnel	126
Environmental Specialists	40
Landscape Architect	6
Planners: Urban/ Regional	9
Civil Engineers	330
Construction Managers	18
Construction Inspectors	21
GIS Specialists	11
Administrative	110
Technical Analysts	27
Computer Programmers	11
Other Misc. Prof. Services	63
Total Number of Employees	1,119



CITY OF KYLE GENERAL CIVIL ROTATION

City of Kyle, Texas



CLIENT NAME

City of Kyle

CONTACT PERSON

Leon Barba, PE
City Engineer
cityengineer@cityofkyle.com
512.262.3958

FIRM ROLE

Prime Consultant

FIRM PROJECT MANAGER

Brian Young, PE

YEAR COMPLETED

Active

CONSTRUCTION COST

Various

LJA was selected as the preferred provider on the City of Kyle's general civil rotation list and has provided 15 separate work authorization across a wide range of civil engineering disciplines. LJA was always available and willing to assist the City in whatever they needed. LJA provided a core team that was consistent throughout the multi-year contract. In addition to the Rotation List, LJA also provided larger, specific deliverable projects during the time frame including Bunton Creek Road which demonstrated LJA's deep resources and ability to successfully deliver multiple assignments concurrently.

#	PROJECT NAME	SERVICES	KEY FEATURES
1	Bullock Tract Field Investigations	Geotechnical, Engineering, Survey	Due Diligence and Envir Discovery. City was exploring for purchase
2	Kyle Gateway Signage	Survey, Engineering, Architecture, TxDOT Permitting	IH 35 Sign Design, permitting
3	Bunton Creek Interceptor WW PH 3	Environmental	Cultural Investigations for future improvements
4	Plum Creek Interceptor WW PH 1	Survey, Engineering, Construction Inspection	18in, 4000 LF
5	Elliot Branch WW PH 2	Survey, Engineering, Construction Inspection	1500 LF, 21in
6	Bunton Creek Interceptor WW PH 3	Survey	ROW documents
7	BCI Metes and Bounds	Survey	ROW documents for future Water Line
8	Schlimer and Porter Street WW	Survey Engineering, ROW, Construction Inspection	8in & 12in, 1400ft & 1000ft
9	Windy Hill Culvert Replacement	Survey, Engineering, ROW, Construction Inspection	Replacement/up sizing of 2-7ftx3ft box culverts and roadway expansion after flood damage
10	Plum Creek Elevated Storage Tank Rehab	Engineering, Construction Phase	EST Rehab of 110,000 Gallon capacity
11-15	Various Surveys	Survey, ROW	Various Surveys and ROW documents for City services, Maintenance, Emergency Repair Work and In House Design

KEY FEATURES

- ✓ LJA provided multiple disciplines but utilized the same PM to maintain consistency
- ✓ In the middle of the contract, LJA's Lead Utility Designer Stuart Cowell, PE, was called to active duty for 1 year and LJA had to maintain 3 ongoing assignments using other company resources
- ✓ LJA was able to cost effectively manage contracts that were just sub consultants
- ✓ LJA became a valued extension of the City staff



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NORTH MAYS STREET

Williamson County, Texas



North Mays Street is a new location/reconstruction of a 4-lane roadway which included a 1,200 foot bridge over the Upper Brushy Creek WCID Regional Flood Control Structure #11. LJA designed, surveyed, permitted and provided construction phase services for this complex project for Williamson County.

CLIENT

Williamson County – Bob Daigh, PE
Director of Infrastructure
bdaigh@wilco.org
512.943.3355

SERVICES

- Schematic Design
- Complex H&H
- Water Quality Design, TCEQ Permitting (CZP)
- Env Investigation
- Geotechnical Services
- ROW documents
- Utility Design: W/WW
- Storm Sewer and Ditch Design
- Illumination
- Roadway Design
- Bridge Design

YEAR COMPLETED

2018 (Design) 2020 (Construction, Est.)

CONSTRUCTION COST

\$14M

KEY SUCCESS

LJA performed multiple route analysis to determine the most logical crossing of the WCID Detention Structure. Additionally, LJA coordinated with the WCID staff to coordinate multiple complex HEC-RAS Hydraulic models to ensure the bridge did not adversely impact the function of the drainage facility.

FM 485

Milam County, Texas



FM 485 was a 9-mile rural 2 lane roadway reconstruction and safety widening project. The project was located in a rural area and the lack of detours made Traffic Control a challenge. LJA worked closely with the TxDOT Bryan District Staff and Milam County officials to develop a safe and efficient construction schedule.

CLIENT

TxDOT Bryan District – Paul Hammons, PE
Paul.Hammons@txdot.gov
979.778.9757

SERVICES

- Roadway Design
- Bridge Design
- Ditch Design
- Utility Coordination
- Complex Traffic Control
- Geotechnical Services
- Cost Estimating

YEAR COMPLETED

2019 (Design), 2021 (Construction, Est.)

CONSTRUCTION COST

\$15M

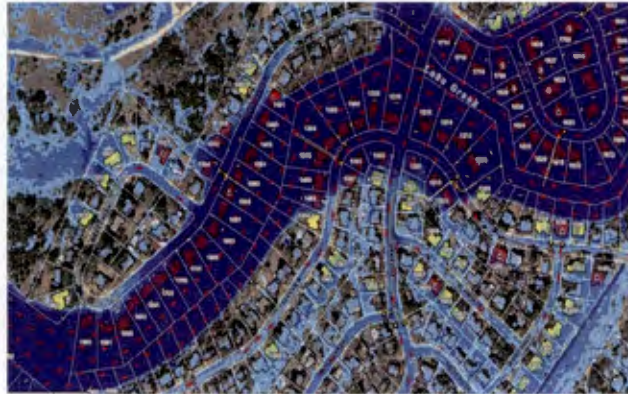
KEY SUCCESS

Milam County is a rural county and working with the TxDOT staff we were able to ensure that construction techniques and materials were financially feasible with the contractors they have in the area. Specifically, the pavement design and the bridge design were tailored to sophistication of the local contractors. LJA used TxDOT standard bridge designs, which saved not only design fee but also provided plans that were straightforward and had readily accessible beams and rails.



DRAINAGE STUDY

Round Rock, Texas



The Greater Round Rock West is an older neighborhood that was experiencing both localized flooding and riverine flooding. LJA performed a detailed 2D Drainage study using a complex modelling program called XP-SWMM. LJA used both LiDAR/ground survey, rain gauge data and photos from residents to develop a dynamic model to determine flood areas. The project involved the analysis of both small existing inlets and ditches as well as larger channels and culvert crossings.

CLIENT

City of Round Rock – Federico Sanchez, PE
Stormwater Engineer
fsanchez@roundrocktexas.gov
512.218.6609

SERVICES

- Drainage Study
- Survey
- Cost Estimating
- Complex H&H Modelling

YEAR COMPLETED

2020 (Design), 2021 (Construction)

CONSTRUCTION COST

\$5M (est)

KEY SUCCESS

LJA worked with the staff and used previous project success to recommend solutions. LJA provided low maintenance and minimally invasive solutions that worked within the community. Large concrete lined ditches were not what the neighborhood wanted, nor were major underground improvements. LJA provided cost effective solutions both the City and the neighborhood accepted that also resolved the flooding.

IH 35/US 183 UTILITIES

Austin, Texas



In conjunction with the construction/reconstruction of IH 35/US 183 Direct Connectors/access roads, several utilities, including Austin Water facilities, are in need of relocation/upgrade. Many of the existing water/wastewater lines are in conflict with the proposed improvements. Limited space within the right-of-way required careful coordination/design of the multiple relocated utilities to ensure TCEQ/COA compliance.

CLIENT

TxDOT Austin District – Beth Ortego, PE, District Utl.
Eng // elizabeth.ortego@txdot.gov
512.832.7372

SERVICES

- Utility Coord/Utility Conflict Analysis
- Bored Utl IH 35/ US 183
- PS&E
- Const. Phase Services
- Multi-Agency/Utl Cord
- 2,500 LF of 12 in Ductile Iron Pipe Waterline & Appurtenances
- Relocation
- 8,075 LF of 8 in Ductile Iron Pipe Waterline & Appurtenances
- Relocation
- 5,150 LF of 8 in PVC SDR 26 WW Relocation

YEAR COMPLETED

2020

CONSTRUCTION COST

\$160M; \$3M-Water Infrastructure

KEY SUCCESS

Contracted by COA for a 15 in WW line design crossing US 183 to replace an 8 in WW crossing. Design accelerated/completed in 30 days to be included in Mobility 35 Rundberg to US 290 PS&E joint bid plan set.



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ROW ACQUISITION

Kerr County, Texas



To improve water quality in the Guadalupe River, the Texas Water Development Board approved funding for Kerr County to design/install a wastewater system. Most of the area is on septic systems. The team acquired 58 parcels for what will be the 33-mile wastewater collection system. Acquisitions included eight fee simple lift station sites; other parcels were easements. The bulk of the easements were donated in exchange for a service connection. The remaining parcels were acquired through the normal offer process.

CLIENT

Kerr County – Charlie Hastings
chastings@co.keerr.tx.us
830-257-2993

SERVICES

- Acquisitions
- Identification
- Eminent Domain Req
- Negotiation
- Escrow
- Title Services
- Appraisal

YEAR COMPLETED

2018

CONSTRUCTION COST

\$47M

KEY SUCCESS

The project's success hinged on public involvement and education. Perseverance and diligence was employed before/during negotiations and led the owners to accept the project's benefits even in the case of property impacts. Project benefits to the community were sold to owners who initially opposed the project which led to an on-time project completion.

WATER SUPPLY

Guadalupe and Wilson Counties, Texas



LJA (as a sub consultant) completed an Environmental Information Document (EID) for the Texas Water Development Board (TWDB) for a proposed water well field, water treatment plant and an 18-mile water line from Seguin to Schertz. The scope of work consisted of evaluating environmental setting and potential impacts from the project.

CLIENT

Walker Partners Engineers and Surveyors
John Winkler // JWinkler@walkerpartners.com
254.714.1402

SERVICES

- TWDB EID
- NEPA Documentation
- Jurisdictional Waters of the US
- Biological Elements
- Cultural Resources
- Hazardous Materials
- Threatened/Endangered Species Habitat
- Agency Coordination
- Permitting

YEAR COMPLETED

2018 (Environmental Approval)

CONSTRUCTION COST

\$66M (est)

KEY SUCCESS

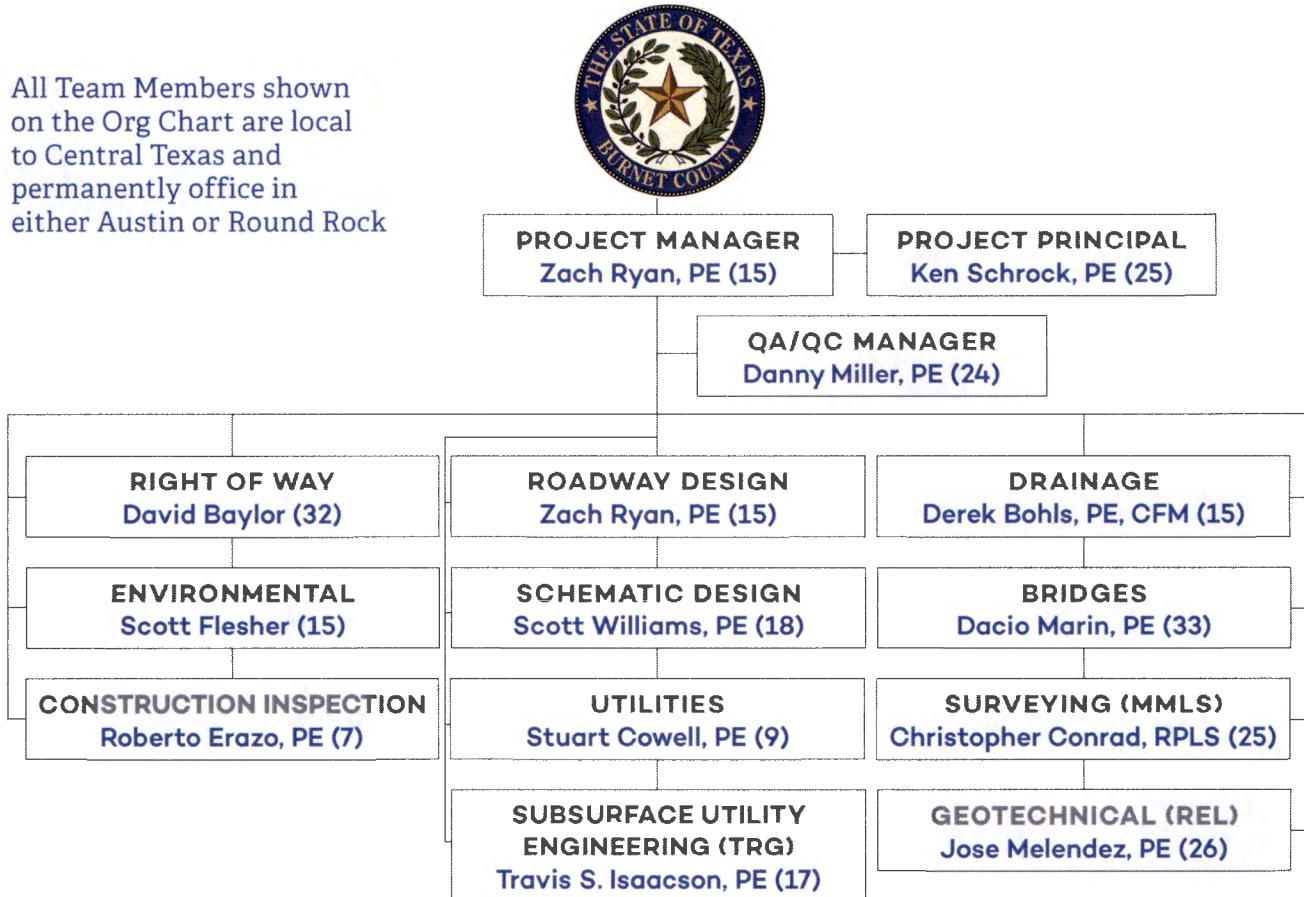
The TWDB EID project was a success because all the consulted agencies and TWDB approved the environmental portion of the project and environmental clearance was completed within the approved budget. Additionally, THC provided a concurrence letter after an Intensive Cultural Resource Survey and the USACE provided an authorization letter for activities under Nationwide Permit 12.



» 2 - PROJECT TEAM

TEAM ORGANIZATION

The LJA Team's key personnel and their respective roles for future assignments are indicated on the organizational chart below. LJA's local personnel staff of 179 are supported by over 940 additional LJA employees nation-wide.



LEGEND

ROLE (SUB FIRM) Name (Years of Exp)
--

MMLS: McGray & McGray Land Surveyors, Inc. (DBE)
REL: Rodriguez Engineering Laboratories, LLC (DBE)
TRG: The Rios Group, Inc. (DBE)

DBE REQUIREMENTS

Because LJA itself has grown from a small firm in 1972 to where we are today, we hold a strong belief in supporting betterment programs for growing, small firms, especially women and minority-owned. LJA recognizes that we have a personal and professional responsibility to reach out to Historically Underutilized Businesses and is committed to providing opportunities for them. LJA continually works with these firms and has been able to assist them in professional development by providing support, guidance, and industry knowledge that they can use to plan and grow their own business. Our team of subconsultants include three firms - McGray & McGray Land Surveyors, Inc., Rodriguez Engineering Laboratories, LLC, and The Rios Group - we are more than prepared to meet your HUB goal of 12.6% participation for this project.





PROJECT MANAGER
ZACH RYAN, PE
Austin Office

Zach brings 15 years of experience working in the transportation industry, including: Project Management, Roadway and Highway Design, Environmental Permitting Oversight, Coordination with Public Agencies on Client's behalf, Drainage Design for County and City Municipalities as well as TxDOT within central Texas and throughout the State.. He has extensive experience in civil engineering design including: roadway, schematic, H&H, bridge layouts, water quality, traffic control, cost estimating, public involvement, and construction phase services.

Zach will be the sole point of contact on this contract and will be responsible for ensuring the work products on all assignments follow the LJA QA/QC process. Zach manages projects through attention to detail, a focus on communication and at providing solutions not problems.

EXPERIENCE SIMILAR TO THE SCOPES OF WORK FOR BURNET COUNTY

RESPONSIBILITIES	DACY LN	HERFF RD	IH 10 WBFR	NW BLVD	NEW HOPE DR	N MAYS ST	MERCER ST
Consistent Communications/Action Item Updates	•	•	•	•		•	•
Holding Task Leads Accountable (including Subs)	•	•	•	•		•	•
Budget & Schedule Oversight	•	•	•	•	•		•
ROW Considerations	•	•	•	•	•	•	•
QA/QC Oversight	•	•	•	•	•	•	•
Schematic and PS&E	•	•	•	•	•	•	•
Commitment to Project From Start to Finish	•	•	•	•	•	•	•
Grant/Federal Funding	•		•	•	•		•

Herff Road, Kendall County, Texas - Zach was the Project Manager for this 1.4-mile reconstruction and new location project of a 2-lane rural roadway to a 4-lane urban and rural arterial. The project was the biggest that Kendall County had ever funded and was highly visible for the County. Zach and his team developed multiple alignments during the route study and schematic phase. The project had multiple options to terminate the new location roadway that had significant development implications depending on the route. Zach worked closely with the County, the land owners and provided insight on the pros/cons of various routes so the County could make a final decision. Zach oversaw the development of the PS&E set, the bid documents and the construction. Key Features relevant to this project:

- Zach committed to meeting with the County in person every 2 weeks to ensure project success
- Zach reviewed developer plans to ensure they complied with the County's ROW, driveway placements, and utility connections.
- Involved FEMA, TxDOT, City of Boerne, private developers, Emergency Responders and Parks as stakeholder/permitting agencies and Zach successfully completed all tasks under the County's construction budget.

Dacy Lane, Hays County, Texas - The 2-lane to 5-lane rural/urban project had several very challenging aspects that Zach and the LJA Team resolved and the project is nearing completion (100% Submittal March 2020). The key challenges at the beginning of the project were re-evaluating a previously submitted schematic that had geometric errors that could have potentially led to unsafe conditions. Zach and his Roadway Task Lead evaluated options to improve the safety of the facility while also avoiding the purchase of additional ROW. Additionally, Zach and his Traffic Task Lead performed a detailed traffic study to determine design year and future year traffic volumes. The traffic study helped the team reduce the typical section along portions of the corridor and reduced cost for the County, which allowed the project to continue to develop on budget.





PROJECT PRINCIPAL
KEN SCHROCK, PE
Austin Office

Ken has 25 years of experience in transportation engineering and project management including planning, roadway design, H&H, traffic control, and construction phase services. He has delivered multiple, similarly scoped projects as a project principal insuring each project is adequately staffed and resourced. His experience as a Project Principal includes FM 969 and Gilbert Road, Travis County; Weiss Lane, City of Pflugerville; New Hope Drive, City of Cedar Park.

Role of Principal on Project: Ken will be a hands-on Project Principal and will assist in contracting, scoping and will ensure resources are correctly allocated. Ken does not micromanage his Project Managers and Zach will have full control of the contract. However, Ken will perform periodic audits of the contract to ensure QA/QC is completed and deadlines are met. He will use his 25 years of experience to resolve complex issues. Lastly, Ken excels and enjoys public involvement and will be an added resource should that become necessary.

Road Bond Program, Hays County, Texas – Ken was Project Manager in the GEC role on a project that consisted of design and construction of 14 county roadways and the planning and design of eight state roadways contained in a \$47 million bond program. He managed sub-consultants, provided design criteria, monitored production, oversaw the acquisition of over 200 parcels, reviewed PS&E and schematics, and managed contractors. He produced tracking reports and spreadsheets of estimated costs for the Road Bond Program, coordinated projects with the County Judge/Commissioners/Engineer, neighboring counties, and cities within Hays County; developed bidding documents for construction; and provided construction phase services. Ken provided updates to the client on the status of the bond program and developed/maintained the cash flow plan.

City of Kyle General Civil Engineering Services Rotation List, City of Kyle, Texas – Ken is the Project Principal for the City's General Civil Engineering Services Rotation list contract since 2014. Services included water/wastewater design, elevated tank rehab design, environmental evaluation, geotechnical bores, construction management, bidding services, utility coordination, surveying, meets and mounds preparation, and cost estimation. Ken provided commitment of staff and oversight.



DRAINAGE LEAD
DEREK BOHLS, PE, CFM
Round Rock Office

Derek has 15 years of experience in civil engineering. His hands-on approach has won over the premiere local drainage experts at the Upper Brushy Creek WCID, TCEQ water quality reviewers, City of Round Rock Stormwater Program, City of Cedar Park Engineering, TxDOT Austin District, and CTRMA review teams. As an eminent leader in H&H assessment, community leaders rely on him to resolve their challenges. Derek's designs include water quality regulations and permitting, floodplain mapping, scour analysis, water quality BMP design, impact analysis and documentation, detention and retention design, storm sewer design, culvert design, energy dissipater design, erosion control and SWP3, cost estimating associated with drainage structures.

Weiss Lane, City of Pflugerville, Texas – Derek was the Drainage Task Lead for 3 miles of roadway improvements in Pflugerville, Texas. Derek performed floodplain analysis on three FEMA stream crossings with new bridge locations using HEC-RAS and HEC-HMS; coordinated with the local floodplain administrator. Proposed bridge geometry design; drainage design for PS&E including storm sewer, ditch and cross culvert design using Geopak Drainage, and HY-8.

FM 685 Widening, Williamson County, Texas – Derek was the Drainage lead for the widening of FM 685 from US 79 to SH 130 in Hutto, Texas. Project widened existing roadway and added curb and gutter with a storm sewer system that outfallled into Brushy Creek. Project funded with Proposition 12 funds which required and accelerated schedule to meet the construction deadline. Responsible for drainage design, hydraulic analysis of Brushy Creek Bridges, cross culverts, erosion control, and PS&E.



BRIDGES LEAD
DACIO MARIN, PE
Austin Office

Dacio brings over 33 years of diverse bridge design experience. His background includes more than 18 years of bridge design and PS&E development at the Texas Department of Transportation – Bridge Division (TxDOT-BRG) and 14 years of leading design teams consisting of engineers and CADD designers of various skill levels in developing PS&E plans. He is experienced with on- and off-system bridges, complex bridges, bridge widenings and multi-level interchange designs for TxDOT Districts throughout the State of Texas. Dacio's responsibilities have included project management, design supervision and structural design. In addition, during his career with TxDOT, Dacio served as the Technical Panel Chair reviewing and recommending research projects for funding. He has participated in more than 30 interdisciplinary value engineering (VE) teams that were focused on optimizing transportation projects. Two of the VE teams consisted of a blended team with engineers from Mexico and Texas working jointly. His experience includes working on projects throughout the State of Texas including in Williamson, Travis and Hays Counties.

North Mays Street Bridge, Williamson County, Texas – Bridge Engineer during schematic design. Responsible for determining an optimized bridge length, bridge type and sidewalks for this new location, 4-lane divided highway in Williamson County from south of Jeffery Way to University Boulevard on North Mays Road. He provided a preliminary estimate cost for the bridge, worked on the final design and prepared a complete PS&E set for the bridge plans including bridge construction specifications. During construction, Dacio met with county staff and the contractor as needed to resolve any issues. As part of the construction phase services, Dacio reviewed shop plan drawings.

Weiss Lane Reconstruction , City of Pflugerville, Texas – Bridge Engineer responsible for schematic development for reconstructing the existing 2-lane roadway, adding 4ft shoulders and replacing two existing bridges on Weiss Lane. He performed a design study to determine the optimum bridge type and length, incorporate shared use paths and to meet the desired roadway operations. Once the schematic was approved, Dacio led the bridge design team in the preparation of the PS&E plans. The plans included bridge construction specifications. Scope of work for this project included construction phase services which included meeting with city staff and field engineers and reviewing and commenting on shop plans.



UTILITIES LEAD
STUART COWELL, PE
Round Rock Office

Stuart has over 9 years of civil engineering experience and working with Municipalities, Utility Authorities/Districts, and Agencies on water and wastewater design, lift and pump station design, construction inspection, materials testing, TAS/ADA-compliant curb ramp and sidewalk design. Stuart is currently serving as a Project Manager for LJA's Central Texas Public Infrastructure Division. Stuart specializes in project management, utility coordination, preparation of civil PS&E, and construction phase services.

Stuart has worked with multiple TxDOT districts, Union Pacific, counties, funding agencies, and local governments. Additionally, Stuart has experience in producing Environmental Assessments, Categorical Exclusions, Environmental Information Documents, and Engineering Feasibility Reports for funding agencies. Stuart believes that the key to project success begins with effective planning, communication and expectations.

Water Line Replacement, City of Castroville, Texas - Stuart was the Design Engineer for 5.5 miles of 6 and 8-in waterlines in the City of Castroville. The project was to replace deteriorating and small diameter water lines. The project include analysis of the city distribution system, capital improvement plan, utility coordination, schematic, developing detailed plans and specifications, bidding, construction activities and a warranty inspection.

Plum Creek Interceptor PH I, City of Kyle, Texas - Stuart was the Project Manager for the design and construction of a wastewater line replacement along Plum Creek in Kyle Texas. Stuart was responsible for managing the scope, budget, developing detailed plans and specifications, schedule of the project, progress meeting, review of submittals, RFIs, pay requests, and change orders.





QA/QC LEAD
DANNY MILLER, PE
Austin Office

Danny has more than 24 years of experience in the design, specification, permitting and construction of site development, street, drainage, stormwater management, water distribution, and wastewater collection improvements throughout the State of Texas, and more than 15 years working in the Central Texas Region. His experience includes a wide variety of public and private projects with very diverse circumstances and design constraints, and has allowed Danny to become adept with a variety of local and State regulatory agencies including TxDOT, TCEQ, TDLR, the City of Austin, the City of Round Rock, the City of Bastrop, Travis County Transportation and Natural Resources, Williamson County, and others. In association with these projects, Danny has provided various services including due diligence research, project management/coordination, conceptual design, and planning, FEMA Letter of Map Revision/Amendment applications, construction plan/specification preparation, permitting, QA/QC, and contract administration services.

RIGHT-OF-WAY LEAD // DAVID BAYLOR, SR/WA // Round Rock Office

David has over 30 years of experience in providing real estate and right-of-way (ROW) services, including appraisal, acquisition, title clearing, and condemnation support. In the course of his career, he has worked on a variety of projects with various government entities including the cities of New Braunfels, Buda, Cedar Park, Pflugerville, San Marcos, and Temple; Kerr and Hays counties; TxDOT; and Canyon and Alliance Regional Water Authorities. He has experience in negotiating and purchasing ROW for roadways and utilities, as well as knowledge of eminent domain procedures, including condemnation support packages. David was ROW Lead and Project Manager for Dacy Lane Phase 2, a two-lane road in poor condition. David has also overseen multiple projects for the City of Pflugerville.

SCHEMATICS LEAD // SCOTT WILLIAMS, PE // Round Rock Office

Scott has 18 years of transportation engineering experience including schematic development, PS&E development, roadway design, drainage design, traffic control, cost estimating, bridge inspections, and various other tasks for a variety of roadway types. His experience includes working on roadway projects for local entities including the cities of Cedar Park, Round Rock, Pflugerville; and the counties of Williamson, Travis, and Hays. Scott has also worked extensively with the Texas Department of Transportation as well as design-build projects for clients such as NTTA, CTRMA, and TTA. He is regarded for his responsiveness, communications skills, and hands on approach to design. He takes ownership and champions projects to solve issues before they reach our client's desk with the ability to identify cause/effect, determine the best long-term solutions, and maximize budgetary constraints in a cost-effective/best solution manner.

CONSTRUCTION INSPECTION LEAD // ROBERTO ERAZO, PE // San Antonio Office

Roberto has more than 8 years of experience in Public Works projects including: utility engineering design and coordination, roadway design, and construction management of both utilities and roadways. His experience includes managing a team of technical personnel including sub-consultants, project engineers, engineering technicians, and CAD technicians. Experience working on a several projects for clients including: CPS Energy, San Antonio Water Systems, City of San Antonio, New Braunfels Utilities, and TxDOT. Working closely with the clients, he has been able to serve as lead at different capacities such as Project Manager, Project Engineer, Construction Engineer, and Utility Coordinator. As the construction engineer, he has conducted inspections for conformance with construction documents, negotiated change orders, reviewed material submittals, reviewed and responded to Request for Information.

ENVIRONMENTAL LEAD // SCOTT FLESHER // Austin Office

As the Ecological Program Manager, Scott has had 15 years of experience in the field of wildlife biology, project management, permitting, and consulting. He is skilled and experienced in on-site investigations, including habitat assessments, wetland determinations and delineations, and Phase I Environmental Site Assessments, as well as recognition of karst characteristics, recharge features, and suitable endangered species habitats. Scott has also prepared numerous applications for Section 404/10 nationwide and individual permits for the USACE, which included conducting Hydrogeomorphic Model (HGM) and Texas Rapid Assessment Method (TXRAM) analyses for wetland impacts and mitigation. He has experience utilizing Trimble Geo HX (sub-foot accurate handheld GPS unit) for field applications.

LJA's strongest asset is our reputation for providing quality services, understanding client needs, and our commitment to developing creative, innovative, and responsible solutions to a wide variety of project challenges.



“
LJA recently completed the design and construction administration on one of our five large road reconstruction projects. LJA was very responsive when any issues arose and the project was completed on time and within the specified budget. Evidence of our confidence in LJA is the fact they were recently selected to be on our general engineering rotation list again.
”

Leon Barba
City Engineer, City of Kyle

GEOTECH LEAD // JOSE MELENDEZ, PE
Rodriguez Engineering Laboratories

Jose supervises all operations of the Austin Laboratory including geotechnical investigations. He directly supervised the boring and logging, classifying soils samples, and laboratory testing and preparing reports for the following projects: The Colony Subdivision, Bastrop, TX; Camp Swift Ranch Subdivision; Robert Mueller Airport Multiuse Development; Yager Lane Overpass; Structures at SH45 at Parmer Lane; Airports: Meacham International, Ft. Worth; San Angelo Regional; Houston Southwest; Sugar Land Regional; Del Rio International; Denton Municipal; Lubbock International, Lubbock, TX; Gainesville; El Paso International.

SUE LEAD // TRAVIS S. ISAACSON, PE // *The Rios Group*

Travis is responsible for managing The Rios Group's professional services throughout Central Texas. He has 17 years experience in the civil engineering and construction fields working as a utility coordinator, utility engineer and project manager. Travis has served as the Project Manager/Engineer on numerous Subsurface Utility Engineering projects for both public and private clients.

SURVEY LEAD // CHRISTOPHER CONRAD, RPLS
McGray & McGray Land Surveyors

Christopher has over 25 years of experience in land surveying, with 19 years in project management. His experience has included all phases of surveying work – field crew, party chief, chief of parties, office technician, and his current position as survey manager/project manager. His responsibilities include coordination of services connected with the project and supervision of field services, including data collection, via GPS networks, conventional, RTK, or terrestrial LiDAR surveying, and supervision of office work, including data entry and reduction, computations, plotting and analysis of data, land title and boundary research and analysis, including ALTA-ASCM surveys, plats, descriptions, right-of-way maps, and quality assurance. Christopher has experience in land title and boundary, right-of-way, route, locative, construction, engineering design, topographic, asbuilt, utility, tree, obstruction, aerial photography control, horizontal control, vertical control, hydrographic surveys, terrestrial LiDAR, and utility research.



» 3 - METHOD OF APPROACH

The LJA Team, led by Zach Ryan, PE has a wide variety of experiences on different types of projects, as the previous section showed. Zach will use this experience to approach each assignment on this general civil contract. While each assignment will be different, there are proven features to LJA's project approach that are the same for any assignment and these are outlined below:

PHASE 1 - SCOPE/PROPOSAL

- Receive project assignment notification from County
- Acquire readily available data about project from County, sub consultants, public records, environmental databases, etc.
- Perform site visit to see project and look for concerns and constraints.
- Meet with County staff to discuss scope, project goals, expectations, preliminary schedule.
- Assemble team that meets goals/addresses needs.
- Submit scope/fee/schedule for review/negotiation/approval.
- Receive signed Work Authorization and Notice to Proceed (NTP)

PHASE 2 – PRELIMINARY DESIGN

- Develop a Project Management Plan (PMP) that is tailored to the complexity of the project. Will include:
 - Project Scope/Fee and Schedule
 - Team members, their roles, responsibilities, and assignments
 - Budgets, schedules, communication protocols
 - Detailed QA/QC Plan, including subs
- Obtain Field Work (if necessary) such as survey, geotech, SUE, Environmental, Property Research
- Perform Preliminary Engineering to determine

feasible solutions, critical features, additional information needs and a recommended solution, documented in a Preliminary Engineering Report (PER)

- Meet with the County to discuss preliminary findings, and move forward with detailed design of recommended solutions

PHASE 3 - DEVELOP PLANS, SPECIFICATIONS, AND ESTIMATES (PS&E)

- Will use its wide variety of in-house engineers/professionals to develop plans for construction, ROW, survey, or whatever the assignment is.
- Will use in house independent QA/QC staff, led by Danny Miller PE, to ensure accuracy/constructability.

PHASE 4 – BIDDING & CONSTRUCTION

- Prepare all construction documents including specs, bid items, special considerations and assist the County in advertisement.
- Oversee the bidding process by responding to Contractor Questions, preparing necessary addenda and attending the Bid Opening.
- Provide at a minimum construction accessibility but if necessary can use in house Construction, Engineering and Inspection (CEI) staff to oversee construction, review shop drawings, address change orders and approve pay applications.
- LJA can provide warranty assistance if necessary.

LESSONS LEARNED FROM PREVIOUS GENERAL CIVIL ENGINEERING CONTRACTS

#1 – ALLOCATION OF RESOURCES

LJA has the local experts to complete almost any type of assignment listed in the RFQ but like any successful engineering firm, those resources are not available at all times. PM Zach Ryan will make himself available to oversee all assignments, however the task leaders may vary depending on availability. LJA has learned that using the same professionals help maintain consistency and avoid budget overruns. For example, if the County request LJA to review some development plans and then asks again to review development plans eight months later, it will be our goal to use the same staff. LJA commits to being open and honest on the availability and will work with the County on a reasonable schedule that best fits the assignment. The LJA Team has redundant resources for every category and with the exception of geotechnical borings, can complete all tasks using in house staff if necessary. Each assignment will require a crafted and committed team, which PM Zach Ryan will get approval of from the County. It is LJA's intention to in good faith meet the DBE Goal for each Work Authorization if possible.



#2 - MULTI DISCIPLINED FIRMS EXCEL

Having in-house experts to successfully deliver projects is invaluable for the County. LJA's 179 Local and 1,100 statewide employees allows PM Zach Ryan to get the right person on the phone at a moment's notice. However, the difference in a standard large diverse firm and LJA is that LJA is 100% employee owned. So, while we are large, we still give one-on-one attention to our clients because we all own a piece of the company. The County will feel that difference in our response times, our attention to detail, and our commitment to keeping your goals with your budget.

#3 - CONSISTENT MANAGEMENT

Since LJA and the County have not worked together, there will be a "getting acquainted" period. We are confident that the County will come to respect and appreciate the quality work that LJA will provide and specifically will enjoy working with Zach and his team. Zach is committed to providing customer service beyond today's standards, and as a shareholder. The County can trust he is committed to long term to LJA. This will benefit the County as institutional knowledge on these types of contracts reduces mistakes, improves efficiency and saves the County money.

ROADWAY DESIGN APPROACH

Our previous experience in roadway design has been of great value to the development of our understanding of the County's needs for this project. We foresee that our approach will focus on the following steps:

1. Developing concise base mapping showing all above ground features, street centerlines, and existing right-of-way limits. This information will be the most critical element in our work program.
2. Establish Design Criteria which will likely be AASHTO or TxDOT criteria if we are tying to a TxDOT facility.
3. LJA will develop typical sections for the proposed/existing conditions for County approval. This will determine lane widths, shoulder widths, clear zone requirements, sidewalk locations, utility assignments, pavement section and standard ditch sizes.
4. LJA uses Microstation Open Roads to develop roadway design, which is the most current technology used by DOTs, including TxDOT. Open Roads allows the team to develop detailed plan and profile alternatives early in the process to determine ROW impacts, potential utility impacts and allows LJA to develop detailed quantity take offs used to develop construction cost estimates.
5. LJA will develop a schematic layout in the preliminary phase and a Preliminary Engineering Report, if necessary, that will indicate ROW needs, major utility locations, major drainage crossings, locations of super elevation, driveway connections, turn lane lengths and key Environmental Features. Because of LJA's knowledge of Open Roads, we can confidently determine limits of construction and begin ROW acquisition based on the schematic.
6. LJA will consider constructability during the preliminary phase and how the project will be phased. We will look at detours, major traffic generators and will develop a Traffic Control Plan that maintains both vehicular safety but also construction crew safety.
7. LJA will pay special attention to special design features like bridges, retaining walls and/or traffic signals and will work with the County's maintenance crews to ensure we are recommended best practices for the County to maintain in the future.
8. LJA will avoid utility conflicts as much as possible because in our experience these can impact the project cost and schedule the most. Should a utility conflict be unavoidable, our in house utility coordination/design team will immediately engage and begin working with the utility owner.
9. LJA produces a detailed PS&E plan that are detailed, constructible, and accurate. We use a 50%, 95%, and final milestone delivery on significant roadway projects including cost estimates. These milestones allow the County the opportunity to review progress, make comments, and accommodate changes needed based on budgets.
10. LJA's pool of qualified resources will allow a completely independent group of qualified engineers review the plans at each milestone to ensure high quality and reduce the likelihood of changes during construction.
11. LJA will prepare a construction manual that includes, standards, specifications, bid tabs and a construction duration schedule. LJA will recommend using TxDOT standards and specifications since these are the generally accepted roadway standards.



Layout of the Wirtz Dam Road bridge. Below is our understanding of what the County is interested in pursuing. The layout shows some potential areas of concern and how LJA would resolve those.



DRAINAGE DESIGN APPROACH

The LJA drainage team has experience on high profile, large-scale highway projects including US 281 and the MoPAC Expressway along with many rural county road reconstruction and new location projects including FM 110 in Hays County and FM 969 in Travis County. In addition to being roadway drainage experts, LJA also has performed analysis on localized flooding problems in neighborhoods. The project team has a history of tailoring its approach to drainage to project specific criteria, methodology, and standards to deliver a safe, cost effective, and low maintenance design.

DATA COLLECTION

LJA would first collect all available data that would assist in the analysis of the watershed including any available studies, reports, approved models, ground survey data, LIDAR, soil surveys, rainfall and stream gauge data, and historical accounts of flooding and high water marks. LJA will meet with the County Engineer, maintenance office, and Local Floodplain Administrator (FPA) to determine project preferences on land use, any known issues in the area, historical roadway inundations causing road closures and project specific criteria. LJA will also perform a site visit of the area to note assumptions based on field findings.

HYDROLOGY

All project outfalls will be identified and a hydrologic will be performed. The hydrologic study will include delineation of all major watersheds associated with major streams and minor cross-drainage structures. Times of concentration are calculated for each area based on sheet, shallow concentrated and channelized flow. Land use runoff coefficients are determined based on the County's preferences regarding existing/future conditions. Peak discharges calculated for 50%, 20%, 10%, 4%, 2%, & 1% AEP storm events using the industry standard hydrology program HEC-HMS. Peak flow rates will be based on NOAA's Atlas 14 24 hour rainfall depths. All peak flow rate calculations will be verified with a second method.

HYDRAULICS

A hydraulic study is created applying the hydrologic results at each crossing, to the existing and proposed cross structures. All existing results are compared to field data/reports to determine accuracy. If a discrepancy occurs between historical reports and theoretical results, the LJA team will re-evaluate the hydrology study. Existing cross structures will be evaluated for structural integrity, age, and profile conditions to determine if any can remain in place, extended, or must be replaced.

Proposed crossings will be sized to pass the design event without overtopping the roadway and ensure there are no adverse impacts to adjacent property owners due to rise in water surface elevations in any event. LJA uses a variety of programs to evaluate hydraulics depending on the complexity including: HEC-RAS, Geopak Drainage, HY-8 and for extremely complex models we use the 2-D program XP-SWMM. Outlet velocities are evaluated and minimized where possible. Outlet protection in the form of stone riprap or gabions is sized and added at the downstream end of outfalls to prevent erosion in the future.

All roadside ditches are designed within the design cross sections and checked every 100ft for sufficient capacity and to check shear stresses to avoid future erosion within the channel. Channel lining is added to areas where erosion is likely to occur due to high shear stresses. All design is reviewed to ensure constructability, minimized construction costs, and minimized maintenance requirements."

"We enjoy working with LJA and have complete trust in Derek and the Central Texas staff. They are responsive, capable, and take pride in the assignments we have given them."

- Alan Green, Project Manager, City of Cedar Park



Below is an example of an XP-SWMM model LJA created to determine flood impacts in an older neighborhood in Round Rock.



UTILITY DESIGN APPROACH

Existing utility facilities, both in and outside of the ROW, will most likely be an issue on a proposed County assignment. The LJA Team will compile existing record drawings, geotechnical data reports, survey data, and utility location information to determine areas that may require further field investigation. Further field investigation may include (but not be limited to) geotechnical bores; environmental investigation; existing utility location/verification utilizing electromagnetic induction, ground penetrating radar, and/or potholing (SUE Investigation); and additional topographic surveying. LJA will assemble all existing and newly acquired information and confirm design criteria and preferred construction strategies.

LJA has full service utility design experience and capability working with water, wastewater, and telecommunications utilities. Many times during planning and design of water utility relocations, unidentified facilities (water services, meter vaults, etc.) can be overlooked. The LJA Team will work with the County to identify and locate all water facilities; properly size, design, and provide value engineering for a proposed water system to meet all requirements. Finding suitable locations for the planned water facilities that provide safe access for long term maintenance, while minimizing impacts to existing utilities is also desirable for minimizing near term and long term capital expenditures.

Due to the gravity flow nature of wastewater lines, crossings of streams and sometimes roadways can be an issue for proposed wastewater facilities. The LJA Team will work with the County to find the most cost effective and efficient crossing possible to minimize items such as proposed bores, temporary/permanent lift stations, and possible bypass pumping. This approach has been utilized by the LJA Team on the City of Austin Zachary Scott Wastewater Tunnel project with great results.



The utilities that can be encountered within the project corridor include:

- Pump Stations
- Lift Stations
- Gas line
- Water/Wastewater Lines
- Underground Electrical and Telephone Radio Tower Sites
- Overhead Electric and Communication on Electric Power Poles

LJA will utilize the 100% plans and specifications to coordinate with Texas Commission on Environmental Quality (TCEQ) for submission to the TCEQ Public Water System Plan Review (TCEQ-10233) for approval.

UTILITY COORDINATION

LJA will utilize County, municipal, 811, past experience, and field information to begin the utility coordination effort by contacting/notifying all known utilities within the project area. With the contact list established a kickoff meeting will be held to introduce the utilities to the project, set lines of communication, obtain existing record information, and establish the project schedule. From past projects in the area the utility team expects to deal with PEC, Central Texas Electric, AT&T, Charter, Frontier, Verizon, Zayo, Northland Cable, LCRA, Atmos, and City or MUD Water/Wastewater systems. As the project moves through milestones the utility team will create/update a Utility conflict matrix. This document will hold all locations and descriptions of utility conflicts and resolutions and will be updated and distributed to the utilities at each project milestone. In addition, the utility team will review and monitor the status of all utility adjustment plans, schedules, and estimates provided by the utility companies. This interactive process will continue through regular scheduled utility meetings until all utilities have been relocated or deemed clear by the Utility team. If at anytime during the process a utility is determined to be found unresponsive the Utility team would begin to climb the escalation ladder with the problem utility. This would begin by contacting the contacts manager and keep escalating up the management ladder until the utility is responsive.

RIGHT OF WAY APPROACH

LJA's Right of Way Team will tailor its approach to Burnet County's decision-making processes. From right of entry through closing of parcels, LJA's team will use best practices learned from working with local agencies such as Hays County, Kerr County, TxDOT, and the cities of Pflugerville, Cedar Park, San Marcos, New Braunfels, and Kyle. We follow the requirements of the Texas Property Code, Chapter 21 as it pertains to making offers under the threat of eminent domain as well as all requirements of the Uniform Relocation Assistance and Real Property Acquisition Act of 1970, as amended (the Uniform Act) when state or federal funding is involved.

The foundation of our team's success is our client-centered approach to project execution. We employ a Communication Plan where the first step is listening to the client and tailoring our approach to meet their needs. Time and again, it is our responsiveness to the client which sets us apart. We develop a Critical Path Schedule and stick to it to meet acquisition deadlines while treating property owners honestly and fairly as constituents of the client. Our proven success on projects is achieved through this process and overseen by a Project Manager that demonstrates all the qualities that you demand, specifically including one that is honest, an effective communicator with the entire project team, knowledgeable of the technical expertise needed for right of way acquisition, and dedicated to providing excellence to Burnet County and its constituents.



» 4 - SERVICES AND AREA UNDERSTANDING

UNDERSTANDING REQUESTED SERVICES AND LOCAL AREA

Key issues the LJA team understands includes:

- Expertise and Familiarity with Local Conditions that could affect projects success
- Local material sources
- Weather
- Geology
- Local contracting resources

Transportation improvement projects in Burnet County require approval by the County Commissioners Court at several stages. Often the first of these occurs during the planning stages, when the County is working with regional, statewide, or federal agencies and organizations to secure funding for projects. The Court later has approval authority for engineering and rights-of-way contracts for professional services and property acquisitions in preparation of project construction. Often the final deliberation by the Court will be to approve the award of a construction contract. As schedules on major transportation projects become complicated by multi-agency oversight, the lead time required to put items on the Court's agenda must be included as the Commissioners serve as the public's voice at each of these critical project milestones.



Zach leading the Dacy Lane Public Meeting where LJA provided Spanish speaking engineers because of the large Hispanic population within the project corridor.

The proposed LJA Team has over 100 combined years of experience working with local government boards, both as professional service providers and as municipal agency staff directly responsible for project management tasks like developing Commissioners Court and City Council agenda items. This experience allows the team to fold in the Court's schedule impacts so the interactions of their deliberations seamlessly flow with the ever increasing regulatory and review requirements of state and federal agencies. Additionally, our team will anticipate questions and concerns individual Commissioners may have about an item and will work with County staff so that answers and reassuring examples of similar solutions are fully developed before standing at the presentation podium.

The special geologic conditions that begin in Burnet County and continue westward can make engineering and constructing major infrastructure improvements here substantially different from what may work in the counties immediately to the east. The Llano Uplift begins along a line that approximately follows US 281 between the cities of Marble Falls and Burnet. The soils in this western portion of the County are dominated by granite and weathered granite with little sedimentary influences. This is good news for founding structures in these areas, such as the future Wirtz Dam Road bridge, but requires substantially more effort and thus expense, when constructing utility lines or storm water systems. The LJA team understands these constraints and regularly designs innovative solutions to minimize the fiscal impacts they pose to your projects.

"I have been extremely pleased with the performance of Ken Schrock and the LJA Team on the FM 685 project for the City of Hutto. Their efforts and coordination with TxDOT has kept this project moving forward under difficult budget and time constraints. I would recommend Ken and his team on future projects where TxDOT is involved."

- City of Hutto, City Engineer, Matt Bushak, PE (now with City of Round Rock)

However, the far northern, eastern, and especially northeastern portions of the county are covered in sand and limestone soil formations that provide excellent ground-water sources. Construction in these areas requires extra considerations for protecting these natural resources both during construction and for the useful life to the project. To this end, sustainability and environmental stewardship are integral to the LJA project approach. We see ahead how a project's construction and 50-year design life will affect the adjacent properties and the communities downstream. For instance, today's runoff from a project in Oakalla might impact a private landowner's stock tank tomorrow, but it will also become the drinking water in Belton next week.

Major transportation infrastructure investments require large-scale heavy construction contractors to build them. While the number of general contractor's with multi-million dollar bonding capacities headquartered in Burnet County may be limited, there are more than next door in Bell, Williamson, or Travis Counties; and they are more than willing to come compete for the right size jobs. The majority of Burnet County projects will not exceed a few million dollars in construction costs. These projects need to be designed and specified in a manner that is most attractive to the small to medium size construction companies that are home grown Burnet County businesses.

Zach's team ensures that their construction plans and bid documents are primarily purposed for soliciting highly competitive bids by carefully detailing key elements and specifying each bid item to eliminate confusion and maximize clarity. LJA's use of a consistent and thorough QA/QC process is an important tool, as is our use of other senior project managers for interim and final independent internal constructability reviews.

Along with the local and nearby construction market, Burnet County is especially well placed with respect to construction materials resources. This is another wonderful side effect of the County's special geologic make-up. The Llano Uplift and the limestone based sedimentary formations serve as excellent aggregate sources for road construction as well as bedding and backfilling trench construction projects. In fact, the operations of Hanson, Capitol Ag, Martin-Marietta, and Cactus Canyon Quarries all running in the south half of Burnet County creates a virtual buffet of vendors for heavy highway contractors.

