

**KSA**

FEBRUARY 2, 2023

THE CITY OF  
**MOUNT VERNON**



Statement of Qualifications for Drinking Water State Revolving Fund (DWSRF)  
Program from the Texas Water Development Board (TWDB)

February 1, 2023

City of Mount Vernon  
Mayor Brad Hyman  
109 North Kaufman Street  
Mount Vernon, TX 75457

***RE: Request for Qualifications for Professional Engineering Services (DWSRF, TWDB)***

Dear Selection Committee:

KSA has been providing engineering services in Texas for over 40 years. KSA is appreciative of the opportunity to submit an SOQ to provide funding application preparation planning, design, and construction management phase services associated with proposed water improvement projects to the City of Mount Vernon.

We have reviewed the request for qualifications and designed our proposal to address the issues as they relate to this project. KSA always has the client's best interest in mind first and foremost when considering a new project workload. We have the capacity and capability to perform the work proposed within the time limitations fixed for the completion of the project.

Our understanding of the scope is that the City is soliciting for engineering services for assistance with Texas Water Development Board funded water projects.

We understand that the selection of a service provider and award of a contract may be contingent upon the funding and approval through the TWDB-DWSRF. KSA is very experienced with TWDB funded projects and we have successfully worked with many utilities similar in size to the City of Mount Vernon.

We have put together a team to ensure we are able to provide the best possible support and service. From the enclosed information, you will find that the KSA team has an excellent record of performance in providing quality service. We are confident we have the team and project experience that can provide the City with the quality service it needs.

We trust this proposal provides all the requested information. Please contact me or your project manager, Brittney Smith, P.E., at 903.236.7700 or bsmith@ksaeng.com, if you have any questions or require additional information about KSA to complete your assessment of our capabilities.

We appreciate your consideration of our proposal. We look forward to hearing from you regarding your review of the proposal and the possibility of working with you on this important project.

Sincerely,

**KSA**



Mitch Fortner, P.E.  
President

# About KSA

KSA is an industry leader with a proven track record in the fields of civil engineering and architectural design.

Founded in 1978, KSA provides a broad range of consulting, management, engineering, architecture, planning, surveying, and construction services to our clients across the south-central United States.

## KSA Core Values

COLLABORATIVE  
TEAMWORK

COMMITMENT TO  
EXCELLENCE

MUTUAL RESPECT

CONSISTENT  
INTEGRITY

FUTURE FOCUSED

### PRIMARY CONTACT

Brittney Smith, P.E.  
140 E. Tyler Street, Suite 600  
Longview, Texas 75601  
903.236.7700  
bsmith@ksaeng.com

### SECONDARY CONTACT

Lanny Buck, P.E.  
140 E. Tyler Street, Suite 600  
Longview, Texas 75601  
903.236.7700  
lbuck@ksaeng.com

## KSA is dedicated to making life better in communities.

That's why we work every day to improve the quality of life for our communities by making water, wastewater, stormwater infrastructure, city halls, courthouses, fire stations, police stations, libraries, community

buildings, roads, bridges, air, and airports safer. From conception to final completion, our knowledgeable teams oversee all aspects of each project on which we work. This attention to detail has resulted in consistent client satisfaction and an excellent reputation throughout the region. It has also led to a high percentage of repeat clients. In fact, we have been serving many of the same clients throughout our entire history.



KSA has grown to more than 150 employees located in multiple offices in the south-central U.S. KSA has been named to the ENR Top 500 list as one of the 500 largest design firms in America. KSA was selected as a Zweig Group 2022 Hot Firm and 2022 Best Firms To Work For.

## KSA Office Locations

Amarillo, Texas  
Austin, Texas  
Longview, Texas

Lufkin, Texas  
McKinney, Texas  
Norman, Oklahoma  
Shreveport, Louisiana  
Sugar Land, Texas  
Tyler, Texas

ALL OFFICERS ARE LICENSED PROFESSIONAL ENGINEERS IN THE STATE OF TEXAS. KSA IS LICENSED BY THE TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM NO. F-1356.



## Civil Engineering

We provide civil, mechanical and electrical engineering services for community facilities, such as water and wastewater treatment plants, street and drainage improvements and recreational facilities. We commonly assist cities with the development of capital improvement plans for infrastructure needs. We utilize all our resources to provide long-term, functional solutions.

**DRAINAGE  
TRANSPORTATION  
MEP  
STREETS & ROADS  
WATER AND WASTEWATER  
SITE DEVELOPMENT**

## Architecture

KSA provides architectural design services to local, state, and federal agencies and a variety of institutions, including K-12 and higher education, airports, recreational facilities and event venues.

## Aviation

KSA's Aviation Services group has a holistic approach to aviation engineering. We take on each project with future projects in mind, thereby ensuring our clients are always prepared for their next need or development opportunity. Our staff has completed aviation projects for airports across the southwest region, ranging in size from small general aviation airports to medium hub commercial service airports.

## Surveying

Surveying, which is often the first course of action before design starts, establishes land boundaries and topography. KSA utilizes the latest technological advances to provide accuracy in survey measurement and to ensure that the designs are compatible with the environmental and topographical conditions of the communities we serve.

**SURVEY & MAPPING  
GIS**

## Alternative Project Delivery

KSA provides turn-key project delivery through multiple delivery methods. From concept through completion with a single contract, we leverage strategic partnerships with qualified contractors and our subsidiary BLOC Design-Build, LLC., to deliver projects in the most cost-effective manner.

**Because of the success generated from our early water & wastewater work, we expanded naturally into other municipal service offerings.**

**MEXIA, TEXAS**

## Drinking Water State Revolving Fund (DWSRF) Surface Water Treatment Plant Improvements

The Bistone Municipal Water Supply District (Bistone) owns and operates two water treatment plants that treat both surface and groundwater. Bistone attained a Drinking Water State Revolving Fund (DWSRF) loan and used those monies to complete several improvements at the surface water treatment plant located on Lake Mexia. All surface water treatment facilities must adhere to a specific set of rules according to their size and functionality. The Bistone facility must comply with the Long Term 2 Enhanced (LT2) surface water treatment rule, which requires public water systems to test their water sources for specific contaminants. When Lake Mexia was tested, contaminants were found. Bistone proactively chose to install an ultraviolet light treatment to inactivate the contaminants, and make the treated water safe to drink.

KSA's civil engineering team was engaged to design the recommended improvements. During design, the project team had to bear in mind the importance of proper project sequencing during construction. At certain points during construction, particularly during the start-up of the ultraviolet reactors, the plant was producing non-potable water, not suitable for consumption. Because of this, the project team worked with Bistone to obtain a discharge permit and develop a standard operating procedure that would allow water to be discarded whenever necessary. Because Bistone has two treatment facilities, this one was able to be taken offline as needed during construction, allowing the other to provide continued service to Bistone's retail and wholesale customers.

The flow of water in a surface water treatment plant can have a significant impact on the quality of the treated water. In the Bistone plant, raw lake water was pumped into its head and flowed by gravity through each treatment process. Due to this set-up, the piping was buried well below ground, which negatively affected the ultraviolet reactors that were controlled by the sub grade flow lines. To remedy this, the design team constructed a new building with a basement approximately eight feet below ground. The ultraviolet reactors were installed in the new structure and performed as intended.

KSA maintains a great working relationship with Bistone and serves as an extension of their staff. We are committed to helping them provide a safe and dependable supply of drinking water at all times and have done so for several years.

**Client Name:** Brent Locke, General Manager, 254.562.5922, **Total Cost:** \$2,340,765.25, **Completion Date:** April 2017

**ROCKDALE, TEXAS**

## DWSRF Water Distribution System Improvements

The City of Rockdale has a dated distribution system which has resulted in major pipe breaks and leaks. KSA assisted the City with the successful application for a TWDB loan. The project is currently underway and a leak detection study is being conducted that combined with distribution system records will be used to prioritize pipe replacements. The budget is projected to allow for replacement of approximately 140,000 linear feet of piping. The initial goal of the project is to replace existing cast iron and asbestos cement pipe in its distribution system. Additional new piping will also be added to provide increased flow rates and pressures in portions of the city.

**Client Name:** Barbara Holly, City Manager, City of Rockdale, 512.446.2511, bholly@rockdalecityhall.com  
**Total Cost:** Ongoing, **Project Status:** Ongoing



## HONDO, TEXAS

### DWSRF Water Distribution System Improvements

**Services Provided:** Due to water loss percentages of about 13.3% in 2011, ever increasing capacity requirements, and the need to conserve as much water as possible, the City of Hondo hired KSA to replace approximately 4.5 miles of water lines in their distribution system. Utilizing funds secured through a Drinking Water State Revolving Fund (DWSRF) loan, the city wanted replacement lines to improve system hydraulics, provide fire protection, and reduce water loss.

The primary purpose of the water line replacements was twofold: First of all, we wanted to install larger diameter water lines where needed to hydraulically connect the water distribution system components. Secondly, we replaced old and dilapidated lines that have a history of leaks. KSA utilized WaterCAD to conduct a hydraulic model of the city's water system. By doing this, areas of inadequate hydraulic connectivity were identified. Using various demand and development scenarios, this analysis was performed with the proposed elevated water storage tank – another project KSA is completing with the City of Hondo. We also interviewed the city staff and reviewed their work logs to create a priority list of the most pressing repair needs. After completing these two pre-design strategies, we were able to easily create an effective and cost efficient scope for the project budget.

The project required a very long bore under a contiguous railroad and highway right-of-way. Because we've worked on projects like this in the area, we had a host of contacts and information to draw upon to safely design the bore to avoid existing utilities within this right-of-way, and expedite the permitting process.

The available funding from the DWSRF loan was awarded to fund three distinct projects: water line replacements, a new elevated water storage tank, and tank rehabilitations – all projects KSA is completing with the City of Hondo. Due to the potential changes in funding amounts for each project, the water lines for this particular project were designated into three categories according to their priority, and bid using alternate bid schedules to ensure the highest priority lines were built first. Because of the competitive bid prices we received and accurate design cost estimates, all the water lines identified for replacement fit within the allotted, DWSRF budget and are included in the awarded construction scope.

**Client Name:** Kim Davis, City Manager, City of Hondo, 830.426.3378, kdavis@hondo-tx.org

**Total Cost:** \$2,700,000, **Completion Date:** May 2018

**PRAIRIE HILL WATER SUPPLY CORPORATION, PRAIRE HILL, TEXAS**

## Prairie Hill Water Supply Corporation Arsenic Treatment Facility

**Services Provided:** In 2001, the Environmental Protection Agency (EPA) reduced the allowable level of arsenic in drinking water from 50 ppb to 10 ppb. Several Texas aquifers contain groundwater with arsenic levels well above the new limit. Prairie Hill WSC is located east of Waco, Texas, and utilizes groundwater from the deepest portion of the Trinity Aquifer. The water supply historically experiences arsenic levels in excess of 20 ppb.

In 2002, the Prairie Hill WSC selected KSA to complete an evaluation of alternative water supplies and methods of arsenic removal. Best management practices for noncompliant groundwater sources often involve locating a new water supply. Prairie Hill WSC coordinated with the City of Waco through FHLM WSC to purchase treated surface water as a new water source. However, an economic analysis of the surface water options revealed that purchasing wholesale water was not economical due to the pumping distance. Prairie Hill WSC received notice of official enforcement action by the Environmental Protection Agency (EPA) in 2010. Based on the report prepared by KSA, Prairie Hill WSC selected to install treatment equipment to reduce the arsenic level in the groundwater produced from its current wells and selected KSA to complete the design and administer construction for the filtration project.

KSA negotiated a revised compliance schedule with the EPA to allow the project to be completed prior to the end of the compliance period. Arsenic treatment is considered innovative technology and the Texas Commission on Environmental Quality (TCEQ) requires pilot testing of the treatment equipment. KSA wrote the pilot test protocol and submitted it to the TCEQ for approval. KSA also coordinated installation of the pilot test equipment and administered all phases of the pilot testing, including process optimization and 30-day continuous pilot operation. The design of the treatment equipment is currently ongoing and Prairie Hill WSC is on schedule for arsenic compliance within the EPA approved timeframe.

**Client Name:** Bruce Jordan, President, 254.344.2242, **Total Cost:** \$76,000, **Completion Date:** October 2013

**TERRELL, TEXAS**

## Utility Relocations for US 80 & SH 205 Roadway Improvements

The Texas Department of Transportation (TxDOT) is initiating the much needed widening of SH 205 north of US 80 and the capacity improvements to the US 80 at SH 205 intersection. Due to these proposed improvements, the City of Terrell was required to have their existing water and sewer lines moved to outside the proposed roadway improvements and widening of the state rights of way. The City of Terrell successfully utilized the SRF funding program at the Texas Water Development Board to assist with funding this project.

The City of Terrell contracted KSA to prepare a Preliminary Engineering Report (PER) to investigate the location of the existing city and franchise utilities. One of the many challenges KSA faced with project was properly locating these older existing city utilities that were located in a very utility congested roadway corridor. The PER has an Opinion of Probable Construction Cost (OPCC) of \$1,574,000 for the proposed city utility relocations and service reconnections. The project included approximately 2,000 linear feet of 8" water line relocation by open cut trench installation, 1,500 linear feet of horizontal directional drilling in commercial areas, and over 700 linear feet of 8" sanitary sewer relocation by open cut trench and 200 feet by directional drilling.

The project was successfully completed within the construction schedule and the final project cost was \$1,615,287, with the only change order for \$115,628 to provide for the material cost increases incurred by the contractor during this project timeframe. Project was completed with minimal impacts to the existing operations to the numerous commercial businesses within this project area.

**Client Name:** Mike Mikeska, P.E., Public Works Director (972) 551-6600, **Total Cost:** \$127,582.23, **Completion Date:** July 2022

## TWDB Project Experience

- Angelina Neches River Authority - NAC RWF Collection System Construction Phase
- Angelina Neches River Authority (ANRA) - CWSRF IUP Redland Estates and District Sewer Improvements
- Angelina Neches River Authority (ANRA) - CWSRF IUP Redland Estates and District Sewer Improvements
- Angelina Neches River Authority (ANRA) - ANRA Wastewater Facility Collection System Expansion & Headworks Improvements SCADA and Integration of Lift Station Control Panels for 11 Sites TWDB CWSRF
- Bistone Municipal WSD - DWSRF Surface Water Treatment Plant Improvements
- Bistone Municipal WSD - DWSRF Water Meter Replacement
- Central Bowie County Water Supply Corporation - Rock Creek Elevated Storage Tank - TWDB Phase 1A
- Central Bowie County Water Supply Corporation - Water Distribution System Improvements - TWDB Phase 1A
- City of Brady - CWSRF Wastewater Treatment Plant Improvements
- City of Castroville - CWSRF East Side Sanitary Sewer Regional Lift Station
- City of Castroville - DWSRF Water Line Replacement Construction
- City of Castroville - East Side Sanitary Sewer Regional Lift Station (CWSRF Funding - Planning-Design Phases)
- City of Castroville - Water Line Replacement Project (DWSRF, Planning-Design Phases)
- City of Crockett - Hwy 7 Utility Relocation - TWDB
- City of Del Rio - DWSRF & CWSRF - W Line, WW Trunk Line and WWTP
- City of Del Rio - DWSRF Water Line Replacement
- City of Diboll - 2020 CWSRF Wastewater Improvements
- City of Gatesville - DWSRF/CWSRF Water and Wastewater System Improvements
- City of Groesbeck - Automated Meter Reading Installation (TWDB)
- City of Groveton - Economically Distressed Area Program (EDAP) Design and Acquisition
- City of Gunter - Gunter DWSRF Water Distribution System Improvements
- City of Hico - Automated Meter Reading/Water Meter Improvements (DWSRF)
- City of Hico - Water Distribution and Ground Storage Improvements (DWSRF)
- City of Hondo - DWSRF Elevated Storage Tank Replacement
- City of Hondo - DWSRF Tank Rehabilitation
- City of Honey Grove - TWDB DWSRF Water Distribution System Improvements
- City of Hubbard - Pressure Tank - DWSRF Funding
- City of Hubbard - Pressure Tank - DWSRF Funding
- City of Hubbard - Waterline Distribution Lines - DWSRF Funding
- City of Huntington - 2014 CWSRF WWTP Improvements
- City of Huntington - 2017 CWSRF WWTP Improvements (Construction)
- City of Jefferson - Preparation of TWDB Audit
- City of Ladonia - 2014 DWSRF Water System Improvements
- City of Lakeport - TWDB Application
- City of Magnolia - DWSRF & CWSRF Water and Wastewater Improvements
- City of Marlin - DWSRF Meter Study
- City of Marlin - DWSRF Real Water Loss Study and Asset Management Plan
- City of Marlin - DWSRF Water Meter Replacement
- City of Marlin - DWSRF Water Treatment Plant Improvements
- City of Marlin - Sanitary Sewer Evaluation Study (SSES) CWSRF
- City of Marlin - Waterline Replacement DWSRF 62520
- City of Marshall - TWDB Wastewater System Improvements
- City of Marshall - TWDB Water Distribution System Improvements
- City of Mexia - Water System Improvements Phase III
- City of Mexia - 2020 DWSRF Water Improvements
- City of Mexia - TWDB Phase II Water Main Improvements
- City of Mount Vernon - Wastewater Treatment Plant Improvements 2012
- City of Pottsboro - TWDB - Wastewater Treatment Plant Expansion
- City of Rockdale - CWSRF Wastewater Collection System Improvements
- City of Rockdale - CWSRF Wastewater Treatment Plant Improvements
- City of Rockdale - DWSRF Mill Street Elevated Storage Tank Improvements
- City of Rockdale - DWSRF Water Distribution System Improvements
- City of Rockdale - DWSRF Water Treatment Plant Improvements
- City of Rockdale - TWDB Application-Water and Sewer Updates
- City of Rockdale - Wastewater System Improvements CWSRF
- City of Rockdale - Water Distribution System Improvements DWSRF
- City of Rosebud - TWDB Water System Improvements
- City of Rosebud - Wastewater Treatment Plant TWDB Loan
- City of San Angelo - TWDB Funding-Hickory Groundwater Water System Improvements
- City of Sonora - TWDB Water Survey and Audit
- City of Terrell - TWDB Funded Water and Wastewater Projects
- City of Whitehouse - TWDB Flood Protection Planning Grant Application
- City of Whitewright - DWSRF Water System Improvements
- City of Wolfe City - CWSRF Sewer System Improvements



## Local Project Experience

- Cabot Norit Americas, Inc. - (2)HYPP Portable Powder Activated Carbon
- City of Tyler - 1.0 MG Elevated Storage Tank Rehabilitation
- Tanos Exploration II, LLC - 1.5 Acre John Campbell Partition
- City of Elkhart, TX - 10 Year Water and Sewer CIP
- Cabot Norit Americas, Inc. - 10" HDPE Wastewater Pipeline Repair
- Cabot Norit Americas, Inc. - 10" HDPE Wastewater Ppl Repair-Phase 2
- Southern Utilities Company - 12-in Waterline Relocation at Spruce Hill Road
- City of Mount Pleasant - 12-inch West Loop Water Line
- RSZZ, LLC - 13.3 Acre Dev SE Corner of IH20 & US 69
- City of Paris - 17th Street Improvements
- City of Tool - 2015-2016 TCDP Street Improvements
- City of Longview - 2016 Bridge and Culvert Improvements
- Smith County - 2017 TCF Gas Utility Infrastructure Impr
- City of Malakoff - 2017-2018 CDBG Sewer Line Extension
- City of Payne Springs - 2017-2018 CDBG Street Improvements
- City of Tyler - 2017-2018 Southside Outfall Sewer Line
- City of Talco - 2017-2018 TxCDBG EST Rehabilitation
- City of Tyler - 2018-2019 Southside Outfall Sewer Line Routing and Concept Design
- Emerald Bay Municipal Utility Dist - 2019 Replace DFS SCADA System
- Elderville Water Supply Corporation - 2019 SCADA System Improvements PO CIA SCADA
- City of Malakoff - 2019 TDA DRP Sidewalk Improvements
- City of Carthage - 2019 TxCDBG Sidewalk Improvements
- City of Hawkins - 2019-2020 TxCDBG Jeffrey St Force Main Replacement
- City of Lone Star - 2019-2020 TxCDBG Sanitary Sewer Line
- City of Lakeport - 2019-2020 TxCDBG Street Reconstruction
- City of Winnsboro, TX - 2019-2020 TxCDBG Street Reconstruction
- City of Elkhart, TX - 2019-2020 TxCDBG Water Transmission Line
- **City of Mount Vernon - 2019-2020 TxCDBG WTP Improvements**
- City of Palestine - 2020 Water Survey and Water Audit
- City of Palestine - 2021 Towne Creek Wastewater Discharge Permit Renewal
- City of Malakoff - 2021 Wastewater Treatment Plant Discharge Permit Renewal
- City of Carthage - 24-Inch Sewer Line
- City of Mount Pleasant - 24-Inch Waterline Replacement I30 Water Plant to Edwards Wat
- Indigo Equity, LLC - 30-Acre Industrial/Commerical Dev
- Roberts-Ray Development, LLC - 5 Acre Tract at Spring Hill Road
- Southern Utilities Company - 5 Year Update for Water Conservation Plan
- Crossland Construction Company, Inc. - 50 Acre ALTA for Prosper Business Park
- City of Mineola - 500,000 Gal Steel Ped Elev WST Paint
- Woodland Midstream, LLC - 5000' Loop in Smith County
- City of Mount Pleasant - 5yr Update-Water Conservation and DCP
- **City of Mount Vernon - 5yr Update-Water Conservation and DCP**
- Sulphur Springs/Hopkins County Economic Development Corporation - Aluf Plastics Stormwater Handling
- City of Marshall - AMI Water Meters & System Evaluation
- City of Mount Pleasant - Anderson Development Survey-Lake Tankersley
- City of Mount Pleasant - Annexation Water and Sewer Evaluation
- City of Winnsboro, TX - Application for Permit for Beneficial Land Use of Biosolids
- City of Mount Pleasant - Arizona Street Sewer Line Improvements
- City of Tyler - Ashmore Unit 4 Emergency Drainage
- City of Mount Pleasant - Basin M Sewer Line Improvements
- Southern Utilities Company - Berry Well No. 1 500,000 Gallon GST
- Southern Utilities Company - Berry Well No.1 High Serv Pump Station
- City of Mount Pleasant - Big Tex Lift Station Improvements
- City of Mineola - Blackmon Meadows Lift Station and Force Main
- City of Tyler - Briarwood Estates Drainage Improvements
- City of Texarkana, Texas - Building & Parking Lot Expansion
- City of Kilgore - FSR - Peavine Lift Station Level Transmi
- City of Kilgore - FSR - Rabbit Creek WWTP Level Transmitter
- City of Mount Pleasant - FSR - Raw Water Intake and Water Treatment
- City of Kilgore - FSR - Remove DFS from Surface Water Treatment
- **City of Mount Vernon - GIS Wastewater System Development**
- **City of Mount Vernon - 2019-2020 TxCDBG WTP Improvements**



## Brittney Smith, P.E.

### PROJECT MANAGER

#### EDUCATION

Bachelor of Science in Civil Engineering  
Texas A&M University, 2010

#### PROFESSIONAL LICENSES + CERTIFICATIONS

Professional Engineer / TX #122003, 2015

◀ Brittney serves as a Municipal Team Leader in KSA's Longview office. She has been with KSA since 2017 and has more than 10 years of experience in civil engineering, design and construction administration services. Over the course of her career, she has designed engineering solutions for a wide range of project types. Her diverse background includes engineering for roadways, multi-use trails, utility installation, drainage, aviation and water/wastewater treatment. Brittney has provided project coordination with state and federal programs for purposes of funding and permitting. Programs include Texas Department of Transportation (TxDOT), Texas Water Development Board (TWDB), Texas Department of Agriculture (TDA), Texas Commission on Environmental Quality (TCEQ) and Federal Emergency Management Agency (FEMA).

Brittney has served as a project manager for a number of municipal civil engineering projects during her time at KSA and has learned that client satisfaction is crucial to the success of any project. She recognizes the importance of clear communication and strives to meet the needs and expectations of her clients.

#### Project Experience

- City of Athens - West Wastewater Treatment Plant Sewer Collection Line and Water Line Repairs
- City of Grand Prairie - Main and Jefferson Street Storm Drain Improvements
- City of Huntsville - FM2821 Roadway Improvements
- City of La Porte - Drainage Feasibility Study
- City of Lakeport - 2019-2020 TxCDBG Street Reconstruction
- City of Longview - 2016 Bridge and Culvert Improvements
- City of Longview - Cotton Street Streetscape
- City of Longview - FM 2275 Utility Relocation (White Oak City Limits to S.H. 300)
- City of Longview - Grace Creek WWTP CIP
- City of Longview - Greggton Lift Station Improvements
- City of Longview - Industrial Drive At-Grade Railroad Crossing Improvements
- City of Longview - Lake Cherokee Water Treatment Plant Improvements
- City of Mount Pleasant - 12-inch West Loop Water Line
- City of Mount Pleasant - Big Tex Lift Station Improvements
- City of Mount Pleasant - I30 Storage Tank Rehabilitation
- City of Mount Vernon - Downtown Revitalization
- City of Mount Vernon - TCF Dallas Street Downtown Sidewalk Improvements Phase II
- City of Paris - 17th Street Improvements
- City of Mount Pleasant - Basin M Sewer Line Improvements
- City of Mount Pleasant - 24" Water Line
- City of Whitehouse - Strategic Plan for City of Whitehouse
- City of Winnsboro - 2019-2020 TxCDBG Street Reconstruction
- City of Winnsboro - Elm and Walnut Street Sidewalk Replacement
- City of Winnsboro - Market Street Redevelopment
- City of Winnsboro - Meadows and Knight Street Sidewalk
- City of Winnsboro - Water Distribution System Analysis



## Blake Powell, P.E.

PROJECT ENGINEER

### EDUCATION

Bachelor of Science in Civil Engineering,  
The University of Texas at Tyler, 2015

### PROFESSIONAL LICENSES + CERTIFICATIONS

Professional Engineer / TX, #133210, 2019

### PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers  
ASCE Environmental & Water Resources  
Institute  
ASCE Texas Section - Northeast Texas  
Branch

◀ Blake Powell, P.E., is a project manager for KSA's Municipal Services. Mr. Powell graduated from the University of Texas at Tyler and has a B.S. in Civil Engineering. Blake is passionate about the projects that he works on because they have a direct impact on the everyday life in communities. Blake is proficient in AutoCAD Civil 3D and has been a member of Water Environmental Association of Texas (WEAT) since 2017. Blake is no stranger to being faced with unique problems and finding solutions that will directly impact communities in a positive way.

Blake has experience with a variety of municipal project types including water distribution lines, storage tanks, water treatment, water wells, sewer lines, wastewater treatment, street rehabilitation, drainage, site development, disaster recovery, planning and permitting. With this project experience, he has worked closely with city officials and government entities.

### Project Experience

- City of Winnsboro, TX – Senate Bill 3 Emergency Preparedness Plan
- City of Kilgore – UT21-07 Highway 42 Utility Relocation
- City of Mount Pleasant – Wastewater Treatment Plant Rehabilitation
- City of Mount Vernon – WWTP PER
- City of Mount Vernon - ARPA Project
- City of Mount Vernon - Highway 37 Tank Rehab
- City of Bridgeport - Water Treatment Plant Sludge Improvements
- City of Wills Point, TX – TWDB DWSRF PIF Application: Raw Water Line Improvements
- City of Grapeland – TWDB CWSRF PIF Application: Wastewater Treatment Plant Expansion\*
- City of Grapeland – TWDB DWSRF PIF Application: Water System Improvements\*
- D&M WSC – TWDB DWSRF Eden Plant Rehabilitation\*
- City of Alto, TX – TWDB CWSRF WWTF & Collection System Improvements\*
- City of Mabank, TX – TWDB DFund Water and Wastewater Improvements\*
- City of Alba, TX – TWDB CWSRF Mockingbird & Quitman Sewer\*
- City of Alba, TX – TWDB WWTP Improvements\*
- City of Gladewater, TX – TWDB DWSRF (Multiple Projects for construction budget of \$1.4M)\*
- City of Gladewater, TX – TWDB CWSRF WWTP & Collection System Rehabilitation\*
- City of Jefferson, TX – TWDB DWSRF & CWSRF Downtown Water and Sewer Improvements\*
- City of Ennis, TX – TWDB CWSRF Phase 2 WWTP Improvements\*
- Craft-Turney WSC – TWDB DWSRF New Water Well\*
- Kellyville Berea WSC – TWDB New Water Well\*
- City of Wills Point, TX – TWDB DWSRF Water Treatment Plant Upgrades

\* indicates work with previous firm



## Lanny Buck, P.E.

QUALITY ASSURANCE / QUALITY COMPLIANCE

### EDUCATION

Master of Science in Civil Engineering,  
Texas Tech University, 1989

Bachelor of Science in Civil Engineering  
Texas Tech University, 1988

### PROFESSIONAL LICENSES AND CERTIFICATIONS

Professional Engineer / TX #79270, 1994;  
LA #37987, 2013

### PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers  
Texas Society of Professional Engineers

◀ Lanny Buck, a principal at KSA, has been working in the civil/environmental engineering field for 31 years. He has extensive experience with municipalities and has completed water and wastewater, street, bridge, drainage, pedestrian walkways and other civil engineering projects for over 40 municipalities. Lanny has provided project coordination with many state and federal programs, including United States Department of Agriculture (USDA), Community Development Block Grants, TWDB, Texas Department of Transportation (TxDOT), U.S. Department of Housing and Urban Development (HUD), and Texas Department of Rural Affairs (TDRA). Project review and permitting has been coordinated through the TCEQ, USEPA, USACE and other local, state and federal agencies.

### Project Experience

- City of Bartlett - TxCDBG Sewer Line Improvements
- City of Brady - TxCDBG Water Mains Improvement
- City of Carthage - TWDB Water Conservation Plan Annual Report
- City of Elkhart, TX - 2019-2020 TxCDBG Water Transmission Line
- City of Hamilton - 2019-2020 TxCDBG WWTP Improvements
- City of Hughes Springs - WWTP Influent Sewer Line Replacement
- City of Kilgore - Water and Wastewater Consulting
- City of Lone Star - 2019-2020 TxCDBG Sanitary Sewer Line
- City of Marshall - AMI Water Meters & System Evaluation
- City of Mount Pleasant - New City Lake Spillway Repair
- City of Mount Pleasant - Wastewater Treatment Plant Rehabilitation
- City of Mount Pleasant - 12" West Loop Water Line
- City of Mount Pleasant - Water & Sewer Service Evaluation
- City of Mount Pleasant - Storage Tank Rehabilitation
- City of Mount Pleasant - Big Tex Lift Station
- City of Bartlett - TxCDBG Sewer Line Improvements
- City of Mount Pleasant - 24" Waterline Replacement
- City of Mount Vernon - TCF Sidewalk Improvements
- City of Pittsburg - Downtown Streetscape Improvements
- City of Quitman - Water Distribution System Improvements
- City of Rankin - TxCDBG Water Main System Improvements
- City of Rockdale - TxCDBG Water Transmission Lines
- City of San Augustine - USDA Wastewater Collection and Treatment System Improvements
- City of Terrell - Hwy 80 and Hwy 205 Utility Relocations
- City of Winnsboro - Market Street Rehabilitation Project
- City of Winnsboro - Elm and Walnut Street Sidewalk Replacement
- City of Winnsboro - 12" Water Line Upgrade
- City of Winnsboro - WTP Addition of Clearwell No. 2
- City of Woodville - TxCDBG Wastewater Screen Replacement



KSA's staff of over 30 municipal engineers focuses on affordable design solutions for the civil, drainage, paving and water/sewer needs of many mid-sized Texas clients.

### PROJECT MANAGEMENT

KSA's project managers utilize standard project management techniques derived from the requirements of the Project Management Institute (PMI). The PMI certification program is accredited by the American National Standard Institute (ANSI) against the International Organization for Standardization (ISO) 17024, which provides a standardized method to evaluate project managers and establishes industry standard project management techniques. By following this standard, KSA utilizes verifiable and repeatable procedures for successful project management.

KSA begins every project by working closely with the city to develop a project charter. A Capital Improvements Plan typically has a basic statement of work and budget. However, when we begin a project, we further develop the project scope to include milestone summaries, initial stakeholder identification, success criteria, project objectives and high-level project risks.

The project charter becomes a tool for both KSA and the City of Mount Vernon during contract negotiation to assure reasonable and achievable expectations. From the project charter, the project manager is able to identify the engineering specialties that must be included in the project. Key engineering professionals are selected from the project organization chart and our preselected sub consultants based on project specific expertise. These engineers, when combined with city staff, form the core

of the project team and will work together to develop a detailed work breakdown structure, identify other team members needed to complete the work and integrate them into the project team. The team will continue to develop a detailed work schedule and budget.

The schedule and budget become a formal part of the project record and may only be changed through formal action of the project team. KSA is organized as a balanced, functional matrix where our project managers are also direct managers for local staff and project-specific managers for staff from other KSA offices. Resource evaluation and allocation is a continual process throughout the life of the project. The project manager is constantly evaluating team performance with regard to schedule, cost and quality. Modifications to allocated resources are made to assure compliance with milestones.

We believe that communication is key to project success and the county's satisfaction with KSA's service. Therefore, we strive for near constant communication with critical project stakeholders. At a minimum, the project manager will provide the city with formal monthly progress reports scheduled to allow integration into city council packets. Key project milestones such as completion of preliminary or final design, or realization of significant external factors that impact schedule or budget would also trigger specific and formal reports to the city.

KSA utilizes one team from design through construction. KSA's project manager is in charge of all project efforts regardless of project phase and provides accountability for the team's performance.

## QUALITY CONTROL

At KSA, our commitment to the production of quality work is non-negotiable. We understand the value of complete and accurate deliverables. In an effort to continuously heighten the quality of our work, we implemented a refresh of our existing quality review program that includes a system of independent peer quality reviews.

Our project managers are responsible for obtaining a peer quality review from individuals who are not associated with the project team. The disassociation of the reviewers is critical because of their propensity for a fresh and unbiased perspective. With fresh eyes, these reviewers can see elements of the design the project team may be too close to realize objectively.

This review philosophy has refined the value of our deliverables, which consist of engineering reports, planning documents, preliminary engineering reports, plans, specifications, contract documents, plats, legal descriptions, renderings, conceptual drawings, master plans, and similar items. Peer reviewers are engaged early to establish a plan that involves a discussion of design basis, schedule for reviews, and the anticipated man hours. We are also careful to allow time for the implementation of the required changes.

When appropriate, KSA also performs contractual/legal reviews to ensure we are in compliance with each specific provision of funding source, permitting, and environmental requirements. At the request of a KSA senior executive or client, the project team will submit designs for an external review.

Ultimately, our goal is the production of technically

accurate, constructible designs that meet the needs of our clients in a timely and cost-effective manner.

## SCHEDULE AND BUDGET

KSA is very successful at complying with project baselines including schedules and budgets. Adherence to baselines is a function of proper planning. We consider budget and schedule early in the development of the project charter to assure that both are reasonable, adequate and meet the needs of the city.

We properly plan our work based on the charter and apply sufficient manpower and resources to complete the work according to the agreed contract. Not every challenge can be anticipated during project planning. KSA's project managers have authority to implement procedures to regain a schedule should delays occur including allocating additional staff from our pool of 150 employees. Once we agree upon a schedule, you may be assured that we will meet the required deadlines.

KSA builds review milestones into each design and production schedule. We use review milestones as the basis for critical path method scheduling of the project. Using the notice to proceed date, completion date and our estimated man hours, we develop slack and float projections for each task and milestone. Our project manager continually monitors progress and makes adjustments as necessary.

For each milestone, sufficient time is included for a thorough review by the next level manager and city staff as appropriate. Peer and independent reviews are also scheduled later during design of the project to minimize project costs while ensuring accurate deliverables.

## SAMPLING OF PROJECTS COMPLETED ON TIME AND UNDER BUDGET

Project Name	Estimated Cost	Actual Cost	Contract Completion Date	Actual Completion Date
City of Groveton - TxCDBG Street Improvements	\$182,468	\$182,468	10/19/20	10/6/20
City of Hubbard - CDBG-DR Trimble Lift Station Improvements	\$510,000	\$382,262	3/30/21	3/30/21
City of Hubbard - 2017-2018 TxCDBG Sewer Line	\$328,500	\$245,727	7/10/19	11/12/19
City of Mount Pleasant - New City Lake Spillway Repair and Bridge	\$800,000	\$738,600	1/3/2022	9/25/2021
City of Mount Pleasant - 12-Inch West Loop Water Line	\$948,228	\$612,423	11/29/2021	11/27/2021
City of Thornton - 2017-2018 TxCDBG Sanitary Sewer Rehabilitation	\$233,000	\$202,350	9/27/20	10/17/20
Mexia EDC - EDA Street and Drainage Improvements	\$2,463,714	\$2,069,573	3/26/20	3/26/20



At KSA, we understand the importance of project schedule and budget, as well as the quality of the final product. You can be assured that KSA and the staff assigned to your project are knowledgeable, experienced, responsive professionals who are effective communicators and will represent your interest. You can also be assured that coordination, exchange of information and quality control are critical issues for KSA and all will be addressed in our project approach.

As an illustration of our firm's qualifications and ability to undertake high quality work, the following provides our typical project approach that we employ to ensure our client's preferences and standards are met:

#### **APPLICATION PHASE**

1. Set up a formalized kickoff meeting with all stakeholders, to establish goals, communication methods, and expectations.
2. Provide coordination and support to prepare the Project Information Form (PIF) and full application.

#### **DESIGN PHASE**

1. On the basis of approved study phase documents, the project will be designed by the Engineer in accordance with the intent of the contract between the city and the Funding Agency.

2. Design the improvements in accordance with applicable regulatory and industry standards.
3. Furnish to the city, where applicable, the engineering data necessary for applications for routine permits required by local, State, and Federal authorities (as distinguished from detailed applications and supporting documents for government grants, planning advances, environmental and cultural resources investigations or permits).
4. Prepare detailed contract drawings and specifications for construction.
5. Prepare detailed opinions of probable cost.
6. Meet with the city to review the plans and opinions of probable cost for comparison with the project budget and requirements of the project.
7. Furnish the city with plans, specifications, notice to bidders, and bidders' proposals.
8. Meet with the city to discuss comments and concerns regarding the preliminary submittal. Make any necessary changes and complete detailed design.
9. Submit final design plans and specifications for a second review.
10. Meet with city staff to discuss comments and concerns regarding the preliminary submittal.
11. Prepare final sealed construction documents that incorporate any additional requested changes.