K.C. ENGINEERING, INC.

705 N. Hwy 281
Suite 103
Marble Falls, TX 78654
(830) 693-5635

info@kcengineering.com
www.kcengineering.com

Williamson County

To Whom it may Concern:

K.C. Engineering, Inc. (KCE) has provided consulting engineering services to a broad range of both governmental (state, county and city) and private clients. KCE was formed in 1986 in Austin and relocated its office to Marble Falls in 2005. KCE performs a broad range of civil engineering services including roadway and drainage design (streets, county roads, and state highways), subdivision design, site development plans, and preventive maintenance and rehabilitation projects.

KCE developed its engineering design philosophy based upon the experiences of its principal, Greg Haley, P.E., as a former TxDOT Area Engineer. A project begins when it first becomes a concept, yet does not end upon completion of the Plans, Specifications and Estimate (PS&E) – it ends when the project is opened to traffic. With that approach, KCE strives to ensure that the design focuses upon not only PS&E meeting appropriate design criteria, but that construction bid prices are reasonable and the owner's cost of project administration is also reasonable.

Contact Information:

Company Name:	K.C. Engineering, Inc.
Physical Mailing Address:	705 N. Hwy 281, Suite 103, Marble Falls, TX 78654
Contact Person:	Greg Haley, P.E.
Contact Person E-mail:	gregh@kcengineering.com
Contact Person Telephone Number:	(830) 693-5635

The K.C. Engineering, Inc., Marble Falls Office is registered with the Texas Board of Professional Engineers and Land Surveyors with Firm Registration No.: F-977.

Thank you for the opportunity to submit our Statement of Qualifications.

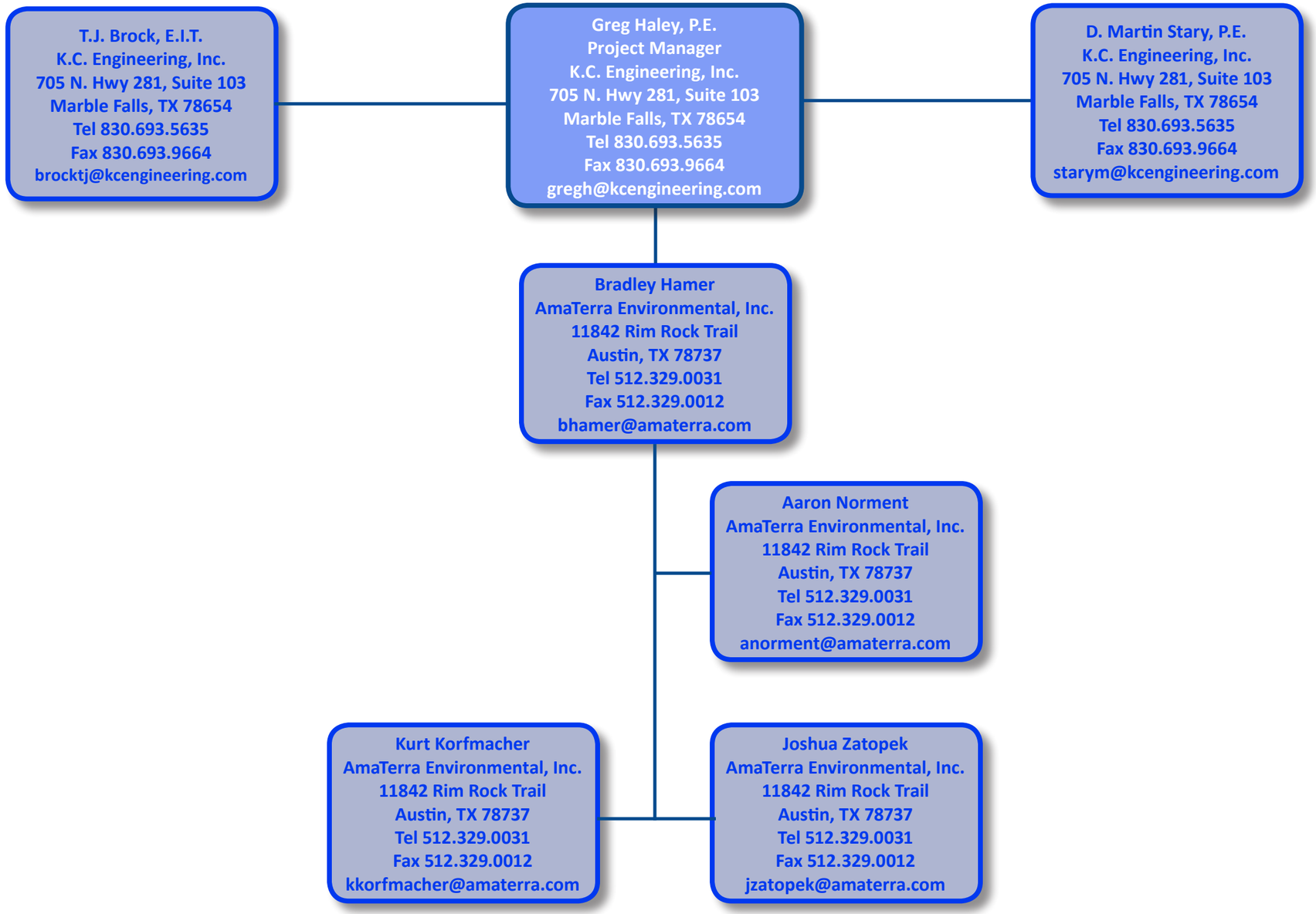
Sincerely,

Greg Haley, P.E.

Greg Haley, P.E.
President
K.C. Engineering, Inc.
Firm Registration No.: F-977

DESIGN ENGINEERING SERVICES

PAGE 2



Greg Haley, P.E., is the Project Manager (PM) for K.C. Engineering, Inc. (KCE) and has over 30 years experience with roadway resurfacing, rehabilitation, and culvert replacement projects.

Greg was employed by TxDOT for 20 years – 13 of those years as the Area Engineer (AE) for the Burnet Area Engineer Office in the Austin District. Greg was responsible for administration, planning, design, construction and maintenance of all State highways in Blanco, Burnet, Gillespie, Llano, and Mason Counties and portions of Travis, Hays and Williamson Counties. He was responsible for 1,850 centerline-miles (3,950 lane-miles) of highway in his area. Until the opening of the Georgetown Area Engineer Office, Greg was responsible for approximately one-half of the State highways in Williamson County – having performed engineering design and construction management on US 183, SH 29, RM 1431, and RM 2243.

As the PM, developing Plans, Specifications, and Estimates (PS&E) for Routine Maintenance Contracts was a substantial portion of the work performed while Greg was AE. Each year, routine maintenance plans were prepared for seal coat and hot mix projects as part of the District Routine Maintenance Program. For District Routine Maintenance Contracts, Greg was responsible for the entire area west of IH 35 in the Austin District and in certain situations, for highways in eastern Williamson County. Throughout his tenure as AE, all 1,850 centerline miles received routine maintenance at least once, and some more than once. The pavement management plan for the western one-half of the TxDOT Austin District was based upon Greg's experience assessing existing roadway conditions and his experience with seal coats, two course surface treatments, and hot mix overlays.

In addition to seal coat and hot mix projects, a substantial portion of the work performed by Greg as AE was other types of rehabilitation projects and culvert replacement and/or culvert widening projects.

KCE, under Greg's direction, has performed several rehabilitation projects as a consultant to the TxDOT Austin and Fort Worth Districts.

As explained further herein, it is conservatively estimated that Greg was the PM responsible for developing PS&E for approximately 170 miles of hot mix overlays, totaling approximately 482,000 tons.

In addition, and conservatively, Greg was the PM for approximately 1,850 miles of seal coat (9,768,000 LF at 20' wide) totaling approximately 21,700,000 square yards translating to approximately 6,512,000 gallons of asphalt and 180,000 CY of aggregate.

KCE performed the pavement rehabilitation design project on FM 1184 in Tarrant County in the TxDOT Fort Worth District.

Representing its clients, KCE has designed multiple rehabilitation projects on State highways including SH 71, SH 29, and RM 1431 in Burnet County and US 290 in Blanco County.

KCE recently completed a culvert project on CR 301 for Blanco County.

KCE is currently under contract with Blanco County for a culvert installation project on CR 410.

KCE currently has a contract with Williamson County for Small Maintenance Contracts:

KCE designed and prepared the construction plans for the CR 375 project that is currently under construction.

With Greg as PM, KCE designed and prepared the construction plans for a Cross-Culvert Replacement Project. KCE designed cross-culvert replacements for nine locations throughout Williamson County, including County Roads 233, 241, 417, 448, 461, 468, Adelfa Drive, Grandridge Trail, and Winding Way.

As explained further herein, with Greg as PM, KCE designed and prepared the construction plans for twenty-two (22) Burnet County roadways that consisted of base overlays on roadways exhibiting severely distressed (failed) pavement and with relatively high ADT or structural pavement repair on roadways with relatively lower traffic volumes, tconsisting of milling and replacing the failed pavement structure with hot mix. Other roadways exhibiting less distress received a 2" ACP overlay or a two-course surface treatment. KCE also designed two culvert crossings on CR 120, one culvert crossing on CR 208 and one culvert crossing on CR 219.

Greg Haley, P.E., has over 30 years experience with seal coat and overlay development.

Greg was responsible for performing visual pavement assessments to determine the appropriate preventive maintenance/rehabilitation technique. In most cases the majority were seal coat with much smaller amounts of 1.5" hot mix overlays. Greg's responsibility was to select the projects based upon available funds.

For demonstration purposes, it is conservatively estimated that Greg was the PM responsible for developing PS&E for approximately 170 miles of hot mix overlays, totaling approximately 482,000 tons. In addition, and conservatively, Greg was the PM for approximately 1,850 miles of seal coat (9,768,000 LF at 20' wide) totaling approximately 6,512,000 gallons of asphalt and 180,000 CY of aggregate.

Greg was the PM responsible for 2" ACP overlays on IH 35 from Georgetown to Jarrell (15 miles), US 281 from Lampasas to Blanco (70 miles), US 290 from Dripping Springs to Fredericksburg (55 miles) and SH 29 from Burnet to Georgetown (30 miles).

Greg was also the PM responsible for the pavement types and application rates on all construction projects. As an example, for the RM 620 major construction project alone, Greg was responsible for approximately another 72,500 tons of hot mix, 175,000 gallons of asphalt, and 4,800 CY of aggregate.

Recently, Greg was the PM and Task Leader for developing PS&E for two Burnet County preventive maintenance and rehabilitation contracts. Each contract was approximately $5,000,000 ($10,000,000 total) and work was performed on 22 different Burnet County roads. In fact, a portion of the work was on CR 322 in Williamson County. Greg submitted plan sheets to Terron Evertson, P.E., for review as part of the Interlocal Agreement between Burnet and Williamson Counties.

Five (5) of the Burnet County projects consisted of a base overlay on roadways exhibiting severe distress (failures) and with relatively high ADT. Three (3) of those roadways received a 2" ACP overlay and two (2) received a two-course surface treatment.

Seventeen (17) of those projects were 1.5" to 2" ACP overlays, including areas of structural pavement repair. Greg performed a visual pavement assessment and identified areas of moderate to severe distress and those received structural pavement repair. The repair consisted of milling approximately 6" of the old pavement structure and replacing it with hot mix.

Greg was also the PM and Task Leader for developing PS&E for a $1,925,000 street rehabilitation project in the City of Granite Shoals. A segment of one street received a base overlay, while other streets received structural pavement repair and 2" ACP overlay.

Greg was the PM and Task Leader for developing PS&E for a $1,000,000 street preventive maintenance project in the City of Jonestown. The project consisted of approximately 35 streets that received either a seal coat or 1.5" ACP overlay.

Calculations:

Seal Coat:

1,850 Miles
9,768,000 Feet
2 - 10' Lanes
0.30 Gallons / SY (Asphalt)
1 CY : 120 SY (Aggregate)

Area = 21,700,000 Square Yards

Seal Coat = 6,512,000 Gallons

Seal Coat = 180,000 Cubic Yards

Calculations:

Hot Mix:

170 Miles
897,600 Feet
4 - 11' Lanes
2" Thickness

Area = 4,388,267 Square Yards

Hot Mix = 482,709 Tons

The KCE design team has developed Plans, Specifications, and Estimates (PS&E) for many relatively small maintenance projects throughout the area.

The KCE design team prepared PS&E for two Burnet County rehabilitation projects totaling approximately $10,000,000 on 22 different Burnet County Roads. KCE traveled each road with the respective county commissioner to assess the existing pavement conditions and developed a preventive maintenance and/or rehabilitation strategy that provided what KCE and each commissioner considered the most cost-effective solution.

Five (5) of the Burnet County roadways consisted of base overlays on roadways exhibiting severely distressed (failed) pavement and with relatively high ADT. Three (3) of those roadways received a 2" ACP overlay and two (2) roadways received a two-course surface treatment. KCE also designed two culvert crossings on CR 120, one culvert crossing on CR 208 and one culvert crossing on CR 219.

Seventeen (17) of the Burnet County roadways were 1.5" to 2" ACP overlays, including areas of hot mix level-up and/or structural pavement repair. KCE and each county commissioner agreed that KCE would perform a visual pavement assessment of those 17 roadways and identify areas of moderate to severe distress and those areas would receive either hot mix level-up and/or structural pavement repair. The structural pavement repair consisted of milling approximately 6" of the old pavement structure and replacing it with hot mix.

The KCE design team prepared the PS&E for a street rehabilitation project in the City of Granite Shoals. KCE performed a visual pavement assessment of the streets and presented its recommendations to city staff. City staff presented the recommendations to City Council and the Council adopted KCE's proposed street rehabilitation locations and methods. A segment of one street received a base overlay, while the other streets received structural pavement repair and a 2" ACP overlay.

The KCE design team prepared the PS&E for a $1,100,000 street preventive maintenance project in the City of Jonestown. KCE performed a visual pavement assessment of all streets within the City and summarized its findings in a report. The City concurred with the pavement assessment and selected streets in order of ranking until arriving at its budgetary limitation. The project consisted of approximately 35 streets that received either a seal coat or 1.5" ACP overlay. KCE also designed one culvert crossing on West Reed Park Road.

The KCE design team prepared the PS&E for a multiple barrel reinforced concrete box culvert on CR 123 in Burnet County. Contributing flows were developed using HEC-HMS and NRCS methods and used HEC-RAS to size the box culverts. KCE performed multiple structure size iterations and presented the county commissioner with multiple configuration options. The commissioner chose design criteria that conveyed 95% of the 2-year frequency flow.

The KCE design team prepared the PS&E for a multiple barrel reinforced concrete box culvert on Avenue J. in the City of Marble Falls. KCE prepared a hydraulic model of the channel section using the U.S. Army Corps of Engineer's Hydrologic Engineering Center's River Analysis System (HEC-RAS) software along with existing HEC-2 data available from an existing hydrologic model. KCE prepared the construction estimate and contract documents for the project and performed contract bidding and contract management.

The KCE design team prepared the PS&E for a multiple-barrel box culvert on Wofford Drive for the City of Burnet. The culvert provided for elevation of the roadway and conveyance of the required flows with partial flow over the roadway and controlled backwater elevations such that the Base Flood Elevation for the 1% probability storm event did not increase. KCE developed flow rates from the contributing drainage areas using HEC-1 and used HEC-2 to design and size the culvert structure.

The KCE design team prepared PS&E for a multiple barrel reinforced concrete pipe culvert for Burnet County on CR 207 at Mesquite Creek and at CR 408 at Sycamore Creek. The designs provided a structure that elevated the existing roadway above the base flow of the creek while conveying the base flow of the creek completely below the roadway.

For all projects listed, KCE design team prepared detailed Traffic Control Plans to ensure safety to the traveling public and workers in the work zone, while minimizing inconveniences to drivers.

AmaTerra Environmental, Inc. is an environmental consulting firm specializing in the National Environmental Policy Act (NEPA) process and documentation requirements for Environmental Assessments (EAs), Environmental Impact Statements (EISs), and Categorical Exclusions (CEs), as well as related applicable laws and regulations, including the National Historic Preservation Act (NHPA), the Endangered Species Act, the Migratory Bird Treaty Act, the Clean Water Act, and the Clean Air Act.

As a testament to our expertise and transportation experience **AmaTerra** holds multiple statewide contracts as a prime with the Texas Department of Transportation. **AmaTerra** has held a Statewide Archeological Services two-year contract for the Texas Department of Transportation (TxDOT) consistently from 2009 to 2021. **AmaTerra** also holds a two-year Statewide Archeological Survey Contract that will expire in 2020 and a current contract for a Statewide Biological Services Contract.

AmaTerra serves as environmental consultants on hundreds of transportation engineering projects, including serving as a subconsultant on 71 current TxDOT Engineering/Environmental Contracts. Our transportation experience includes projects associated with the acquisition of new right-of-way, the development of new roads, road widening and maintenance, and off-system bridge work.

Bradley Hamer; Austin, Texas

Brad has been performing and managing projects related to environmental impact analysis for 28 years. A majority of his work during this time has been in the area of natural resources management, particularly NEPA Environmental Assessments and Categorical Exclusions. His NEPA-related projects have primarily been focused on transportation and infrastructure, including environmental clearance of numerous road and bridge projects on behalf of the Texas Department of Transportation (TxDOT). He is familiar with the requirements of the environmental review and clearance processes of TxDOT, as well as the NEPA process in general. He has conducted projects throughout Texas, with particular emphasis in central Texas including Williamson County.

Joshua Zatopek; Austin, Texas

Josh Zatopek is a certified wetland delineator and environmental specialist. His field experience includes delineating and accessing wetlands and waters of the U.S., plant and animal identification, threatened and endangered species surveys, and gathering biological data throughout the State of Texas. Joshua has conducted biological activities for the Texas Department of Transportation (TxDOT), U.S. Army Corps of Engineers (USACE), U.S. Fish and Wildlife Service (USFWS), U.S. Environmental Protection Agency (EPA), Federal Energy Regulatory Commission (FERC), Texas Commission on Environmental Quality (TCEQ), Texas Parks and Wildlife Department (TPWD), and various private clients.

Kurt Korfmacher; Austin, Texas

Kurt is a Senior Architectural Historian and has over 15 years of experience in conducting historic resources investigations on transportation projects. He is experienced in the essential areas of historic preservation and is well versed in Section 106 and the National Environmental Policy Act; is familiar with Section 4(f) of the Department of Transportation Act of 1966, and meets the criteria for professional qualifications for an Architectural Historian as defined by the National Park Service. Kurt is highly experienced in working on transportation projects and is responsible for project scopes and budgets; preparing research designs; conducting historic building surveys; preparing contextual documentation, property type identification and assessment to determine National Registry eligibility; and assessment of effect for Section 106 and NEPA compliance.

Aaron Norment; Austin, Texas

Aaron has worked in cultural resources management for more than a decade and serves as a Principal Investigator for AmaTerra. He is involved in multiple phases of projects and actively participates in archeological fieldwork, as well as performing laboratory artifact analysis. His experience includes participation in cultural resource management projects for federal, state, and local governments and agencies, as well as private industry. Aaron has been working on transportation projects his entire career and is a transportation lead for archeological services on TxDOT projects.

KCE performed drainage analyses and design for many of the projects listed previously.

As part of its TxDOT Indefinite Delivery Contracts, the KCE design team performed the drainage analysis and design of 29 bridges in the Austin and Fort Worth Districts. The drainage design included determining the drainage area for each bridge and calculating the runoff based upon the recurrence intervals required by TxDOT. KCE also performed the hydraulic analyses of all 29 bridges to determine the high water elevations and velocities for each design recurrence interval.

The KCE design team performed drainage design for multiple city street projects:

✪ Manzano Mile	Marble Falls
✪ Mormon Mill Road Phase 2	Marble Falls
✪ Mormon Mill Road Phase 3	Marble Falls
✪ Sixth Street	Marble Falls
✪ Westfall Street	Burnet
✪ Rhomberg Street	Burnet

The drainage design for the projects was for storm sewer systems and based upon criteria established by each jurisdictional entity to comply with its Drainage Criteria Manual. The drainage design included calculating the drainage areas for each system sub-basin and determining the runoff for each required recurrence interval. The KCE design team used the appropriate flow rates to analyze drainage inlets to determine capacity and ponded width and then analyzed the trunk system to ensure the hydraulic grade line was not above the inlet opening.

The KCE design team has performed drainage design for many private facilities, including subdivisions and commercial sites:

Δ La Ventana	Marble Falls
Δ The Mallett Addition	Burnet
Δ The Hills of Shady Grove	Burnet
Δ Heritage Valley	Burnet
Δ The Gregg Ranch	Marble Falls
Δ Dove Meadow	Bertram

The drainage design for each subdivision followed the same criteria as defined above for city streets. In addition to the storm sewer system, the drainage design included analysis and design of storm water detention and/or water quality facilities, complying with established drainage criteria. Detention for The Hills of Shady Grove was performed as a separate project as a regional detention facility.

The KCE design team has performed drainage design for many commercial site developments (office complexes, convenience stores, restaurants, storage facilities, apartments, etc.). The drainage design of each commercial site complied with the drainage criteria of the appropriate jurisdictional entity and included storm water management facilities (detention).

The KCE design team has performed drainage analysis for:

❐ Delaware Creek Drainage Study

The KCE design team evaluated a section of Delaware Creek for the City of Burnet to determine if unauthorized construction activities in the creek had impacted the FEMA-regulated 100-year floodplain.

❐ Avenue J Drainage Study

The KCE design team performed drainage analysis and design of a major culvert crossing on Avenue J in the City of Marble Falls subsequent to the “rain bomb” in 2007. The team used existing U.S. Army Corps HEC-2 hydrology data and prepared a HEC-RAS hydraulic model to design the structure to withstand rainfall events with more significant recurrence intervals.

❐ The Hills of Shady Grove Detention Facility

The KCE design team performed the drainage analysis and design required to construct a regional detention facility to manage rainfall runoff for a 71-acre multi-phase residential subdivision development.

❐ Westfall Street Detention Facility

The KCE design team performed the analysis of a regional storm water management detention pond for both Westfall Street and an adjoining residential subdivision development. The design included developing both pre-developed and post-developed rainfall runoff for the design recurrence interval and routing the post-developed flows through the detention pond in accordance with the local government’s drainage criteria manual.

Very small projects, such as roadway resurfacing (preventive maintenance), may be typically seal coats, two course surface treatments and 1.5" ACP overlays, while roadway rehabilitation may be typically 2.0" ACP overlays and may include structural pavement repair.

Although preventive maintenance and rehabilitation projects may not be "glamorous" , they are arguably equally as important as high-profile projects. Preventive maintenance and rehabilitation projects preserve the existing roadway system. Adequate and timely preventive maintenance can generally defer major rehabilitation and/or complete reconstruction. And of course, that translates into saving construction funds that may be used on other projects.

All projects begin with the Design Concept Conference where Wilco provides KCE with design criteria, project-specific criteria, and other information that you consider necessary.

Culvert replacement projects are becoming more frequent. Many older roadways were intended to "get the farmer and rancher out of the mud" when new pavement was far more important than drainage structures, which explains why many lower classified roadways have overflow sections or small pipes. However, as counties like Williamson continue to grow and the populace changes its opinion, the old "farmer" adage is no longer valid – drivers don't expect overtopping and are less willing to tolerate delays due to flooding.

Regardless of the type of project, it is the opinion of KCE that the Traffic Control Plan (TCP) is the most important component of PS&E. For example, for paving operations, the KCE TCP requires contractors to provide four (4) flagmen – two on each end of the lane closure. One flagmen stops traffic and the second flagmen walks to each vehicle in queue to explain the reasoning for being stopped and what can be expected. This TCP has enjoyed tremendous success with KCE's clients since it dramatically reduces the number and "severity" of complaint calls. KCE also specifies the minimum type and number of construction advisory signs on each roadway to adequately warn drivers of roadway conditions (Loose Gravel, Fresh Oil, etc.).

The TCP for culvert replacement projects fall generally into five (5) categories and the one chosen depends upon conditions at each specific site:

- Under traffic (difficult – small structures)
- Close the road (providing a detour route)
- Temporary detour (possible temporary easements)
- New alignment (new right of way)
- Temporary traffic signals (relatively low ADT)

KCE performs hydrologic and hydraulic calculations based upon the specific drainage criteria of the client. In some instances, it has been an iterative process so the client has more control selecting the size and type of structure to account for budgetary constraints.

KCE employs a comprehensive set of General Notes to provide greater control of contractor's operations and other project-specific criteria. For example, KCE provides temperature requirements for seal coat. The contractor cannot pave if the temperature is 60° F and falling or if the overnight temperature is predicted to be below 55° F.

KCE provides an asphalt season, usually April through October when the paving work can be performed. It is KCE's opinion that providing a paving "window" results in the most economical cost to the client because it allows the contractors to determine when to work instead of using a defined contract period. However, this approach is dictated by the needs of the client.

KCE requires portable changeable message signs be placed at least one week in advance of the paving operation so the public knows what to expect.

KCE usually specifies the type of asphalt and aggregate for seal coats (AC-15P and Gr 4) if higher aggregate polish values are not required. However, if higher aggregate polish values are required, KCE uses the TxDOT Seal Coat Material Selection Table specifying permissible asphalt types and the appropriate aggregate tier.

KCE uses Performance Grade Asphalt for hot mix, typically PG 70-22. Of course, the high end temperature can be modified depending upon the ultimate goal of the pavement (stiffness versus rutting). Higher high-end temperatures may not rut as much, but are more prone to cracking.

KCE, by virute of its existing Small Maintenance Projects contract with Wilco, has a thorough knowledge of what is required for this type of work.

AVAILABILITY OF PROJECT MANAGER, TASK LEADERS AND STAFF

KCE commits its staff to this contract as required to meet the demands of Wilco.

AmaTerra Environmental also commits its staff, as required, to meet the demands of Williamson County.

Through its current Small Maintenance Projects contract with Wilco, and the coordination with our Project Manager, Kon Kwan, P.E., KCE has demonstrated that it will dedicate its staff to meet the time lines established by Mr. Kwan.

KCE believes that a successful project is very dependent upon effective communications between each project manager.

Mr. Kwan has been very effective communicating actual deadlines that are required by Williamson County and KCE has met those deadlines.

KCE also understands, by Greg having worked in the public sector at TxDOT, that sometimes issues arise that were not anticipated or expected, but nonetheless must be addressed timely. As such, when Mr. Kwan has called and explained there is a matter that needs urgent attention, KCE has reallocated its staff to meet those needs as fast as possible.

KCE demonstrated recently its commitment to Williamson County when we were asked to meet on CR 375 to review certain sideroad pipe locations. KCE accepted the invitation and met on-site at the day and time requested.

KCE is of the opinion that it has demonstrated that it will dedicate its staff to meet the needs of Williamson County.

APPENDIX A

GREG HALEY, P.E.
K.C. ENGINEERING, INC.

Education -

Bachelor of Science, Civil Engineering –
University of Texas at Austin (1978)

Registration -

Professional Engineering Licensure
Texas No. 52292 (1982)

Professional Experience -

January 2000 – Present
President, K.C. Engineering, Inc.

May 1999 – January 2000
President, Haley Engineering, Inc.

October 1998 – May 1999
Sultemeier Surveying

October 1985 – October 1998
Texas Department of
Transportation –
Area Engineer

May 1978 – October 1985
Texas Department of
Transportation –
Senior Resident Engineer

Greg Haley, P.E., is President and CEO of K.C. Engineering, Inc. with over 30 years of engineering experience including administration, planning, analysis, design and project management in the areas of transportation, wastewater collection design, waterline design, hydrology, hydraulics, water quality, and land development.

Greg has extensive experience in transportation projects as the Area Engineer for the TxDOT Austin District, Burnet Area Engineer Office for 13 years. Greg was responsible for administration, planning, design, construction and maintenance for all of Burnet, Blanco, Llano, Gillespie, and Mason Counties and portions of Hays, Travis and Williamson Counties (over 1,850 centerline miles of highway – 3,950 lane-miles).

Greg was responsible for the engineering design and project management of the $25,000,000 RM 620 Bridge Project and the highway design of RM 620 from SH 71 to RM 2222 with a combined total construction cost in excess of $50,000,000.

A partial list of projects under Greg's direction are:

- RM 620 ..... $50,000,000
- FM 1187 ..... $2,400,000
- FM 156 ..... $4,800,000
- SH 71 ..... $3,200,000
- SH 16 ..... $2,500,000
- SH 29 ..... $1,800,000
- RM 1431 ..... $7,600,000
- The Manzano Mile $7,400,000
- Hospital Utilities $8,000,000
- Annexation Services $2,800,000

GREG HALEY, P.E.
K.C. ENGINEERING, INC.

QUALIFICATIONS:

TxDOT Precertifications:

3.1.1	Route Studies & Schematic Design - Minor Roadways
3.2.1	Route Studies & Schematic Design - Major Roadways
3.4.1	Minor Bridge Layouts
3.5.1	Major Bridge Layouts
4.1.1	Minor Roadway Design
4.2.1	Major Roadway Design
8.1.1	Signing, Pavement Marking And Channelization
10.1.1	Hydrologic Studies
10.2.1	Basic Hydraulic Design
11.1.1	Roadway Construction, Management And Inspection
11.2.1	Major Bridge Construction Management And Inspection

Municipal and Private:

Site Development Plans
Subdivision Design
Street Design
Water Line Design
Wastewater Line Design
Water Quality Design
Detention Pond Design
Drainage Studies
Project Management

- 50th Street..... $2,200,000
- Mormon Mill Road..... $4,400,000
- Pecan Valley Bridge..... $1,100,000
- SH 71 & RM 1431 Turn Lanes..... $700,000

- TOTAL..... $98,900,000

From 2005 through 2010 Greg was the Official City Engineer for the City of Marble Falls. His responsibilities were the oversight of all engineering-related matters affecting the City. As City Engineer, Greg directed the engineering analysis and design of all infrastructure projects identified by the City Council and incorporated into its Capital Improvements Plan (CIP). In the development of the CIP, he was responsible for the development of all preliminary estimates that became the basis for the issuance of Certificates of Obligation to finance the CIP. In the instance of the 2007 Bond Program alone, the bond amount was over $21,000,000.

Greg directed the preliminary planning for Housing and Urban Development (HUD) Community Development Block Grants administered by the then-Office of Rural Community Affairs (ORCA), now the Texas Department of Rural Affairs (TDRA).

Greg directed Project Management services K.C. Engineering, Inc. provided to the City of Marble Falls. Those services included daily construction inspection, maintenance of project records including diaries, work completed daily, and monthly pays estimates, and other duties as required. Greg also served as the City's liaison to property owners that were affected by ongoing construction activities.

Greg supervised the authoring of various manuals and publications prepared by K.C. Engineering, Inc. including:

- City of Marble Falls Non Point-Source Pollution Manual
- City of Marble Falls Drainage Criteria Manual
- City of Marble Fall Technical Construction Manual
- City of Burnet Non Point-Source Pollution Manual
- City of Burnet Drainage Criteria Manual

D. MARTIN STARY, P.E.
K.C. ENGINEERING, INC.

Education -

Bachelor of Science, Chemical Engineering – University of Texas at Austin (2003)

Registration -

Professional Engineering Licensure
Texas No. 102414 (2008)

Professional Experience -

April 2004 – Present
K.C. Engineering, Inc.

Professional Summary

Martin joined K.C. Engineering, Inc. in April of 2004 and is a Licensed Professional Engineer in Texas.

Martin is a project engineer at K.C. Engineering, Inc. and has 17 years of experience with municipal and land development planning, contract and construction management, roadway and parking lot design, water quality analysis and design, and utility and drainage modeling, analysis, and design.

His responsibilities at K.C. Engineering, Inc. include engineering design, contract and construction management, and working with clients on municipal and commercial/residential land development projects in the areas of roadway and parking lot design, wastewater design, water distribution design, hydrologic and hydraulic modeling, storm water management facilities design, water quality analysis and design of temporary and permanent Best Management Practices, and land development projects.

Project Experience

Martin has performed analysis and design on a variety of projects involving drainage and water quality improvements, including municipal, commercial, and residential projects across Texas. The following is a partial list with brief descriptions of some of the projects Martin has worked on:

Hospital Utility Services - City of Marble Falls:
Martin evaluated utility alignment options for extension of the City of Marble Falls' municipal water and wastewater utilities five miles to the Scott and White Hospital site. Martin prepared construction estimates and evaluated consistency with existing and planned utility

QUALIFICATIONS:

Certifications:

Municipal and Private:

Site Development Plans
Subdivision Design
Street Design
Water Line Design
Wastewater Line Design
Water Quality Design
Detention Pond Design
Drainage Studies
Project Management

infrastructure and service needs. He performed analysis for sizing the 16" water line to service the elevated storage tank located near Scott and White Hospital and to determine Living Unit Equivalent (LUE) availability for the surrounding areas. He evaluated locations for multiple wastewater lift stations to service the area — all based upon the City's Comprehensive Plan.

Mormon Mill Road Phase IIIA:
Martin played a lead role in engineering analysis and design for this multi-lane major collector approximately 3,900' in length. The project included two lift stations with force main transmission lines. He evaluated contributing wastewater loads, force main and lift station component sizes, and topographical conditions in order to consider construction costs associated with lift stations and force mains functioning in series versus independently of one another. Martin fiscally evaluated the cost of multiple force mains in the same trench compared to the initial cost savings for constructing smaller wet wells and pumps since flows would not be combined as with lift stations in series. All lift station designs were performed in compliance with Texas Commission on Environmental Quality (TCEQ) regulations, and also incorporated the preferences of the City of Marble Falls Public Works Department.

Park Restoration
Subsequent to the June 27, 2007 flood event in the City of Marble Falls, in which over 19 inches of rain fell overnight, major damage to infrastructure along Backbone Creek adjacent to Johnson Park, Falls Creek Park, and Kamper's Korner (sic) resulted from the flood. Martin coordinated with City of Marble Falls and the Federal Emergency Management Agency (FEMA) to determine the extent of repairs needed for the site. Through coordination with FEMA, the U.S. Army Corps of Engineers, and the Lower Colorado River Authority (LCRA), Martin prepared submittals to comply with all local, state, and federal requirements for the project. He assisted in preparation of final construction drawings and project specifications, prepared contract documents, and coordinated and took part in the bidding process. In addition, Martin assisted with the contract and construction management for the project.

T.J. BROCK, E.I.T.
K.C. ENGINEERING, INC.

Education -

Bachelor of Science, Civil Engineering –
Texas Tech University (2020)

Registration -

Engineer-In-Training Licensure
Texas

Experience -

July 2021 – Present
K.C. Engineering, Inc.

Occupational Summary

T.J. joined K.C. Engineering, Inc. in July of 2021 and is a Licensed Engineer-In-Training in Texas.

T.J. is a project manager at K.C. Engineering, Inc. and is beginning his career in the areas of roadway design, hydrologic analyses and hydraulic design, land development design, site development design, water quality analyses and design, and utility analyses and design — all performed under the direction and supervision of a Licensed Engineer in Texas.

T.J.'s responsibilities at K.C. Engineering, Inc. include design (under the direction of an engineer) and working with clients on commercial/residential land development projects in the areas of roadway and site plan design, wastewater design, water distribution design, hydrologic and hydraulic modeling, storm water management facilities, water quality analysis and design of temporary and permanent Best Management Practices (BMP).

Roper Ranch — Burnet County

T.J. performed, while under the direct supervision of an engineer, the roadway design within a major subdivision in Marble Falls, Texas. The roadway is a curb and gutter section with sidewalks and storm sewer system. The project consisted of proposed roadway alignments, profile grades, intersections, temporary erosion and sedimentation controls, permanent site stabilization, storm sewer, and cross drainage structures.

Significant drainage aspects included the analysis and design of a drainage structure with a considerably large

off-site drainage area. While utilizing aerial imagery, LiDAR data, on-the-ground topography, and field verification, the drainage area was analyzed to determine the quantity of storm water runoff contributing to the roadway crossing. T.J. performed hydrologic analyses of the contributing drainage area to develop the design flowrates required to comply with the City of Marble Falls Drainage Criteria Manual.

T.J. delineated all on-site drainage areas that contribute to each storm sewer inlet and using the Rational Method, calculated the design frequency flowrates contributing to each inlet.

T.J. mapped the areas of impervious cover within the subdivision development, not only for use in determining the flowrates contributing to each storm sewer inlet, but also for use in determining the methodology for treating the stormwater runoff to comply with the City of Marble Falls Non Point-Source Pollution Control Ordinance.

T.J. calculated the proposed fully-developed rainfall runoff flowrates to determine the amount of runoff that must be detained to comply with the City of Marble Falls Drainage Criteria Manual.

Thousand Oaks — Burnet County

T.J. performed the drainage area mapping for this large tract subdivision. He utilized aerial imagery, LIDAR data, on the ground topography, and field verification, to determine drainage areas. T.J. performed hydrologic analyses of the contributing drainage areas to develop the design flowrates required to comply with the City of Marble Falls Drainage Criteria Manual.

T.J. calculated the existing conditions flowrate for runoff in each drainage area that flows off of the subdivison. He then calculated the proposed fully-developed flowrates to determine the amount of runoff that must be detained to comply with the City of Marble Falls Drainage Criteria Manual.

Bradley R. Hamer

Project Manager/Sr. Environmental Scientist

Extensive Experience in Technical Areas across Field of Environmental Management

23+ years NEPA Project Management Experience

Brad has been performing and managing projects related to environmental impact analysis for 28 years. A majority of his work during this time has been in the area of natural resources management, particularly NEPA Environmental Assessments and Categorical Exclusions. His NEPA-related projects have primarily been focused on infrastructure, including environmental clearance of numerous road and bridge projects on behalf of the Texas Department of Transportation (TxDOT) and water and wastewater system projects on behalf of municipalities and purveyors receiving funding from the Texas Water Development Board (TWDB). He is familiar with the requirements of the environmental review and clearance processes of both of these agencies, as well as the NEPA process in general. He has conducted projects throughout Texas, with particular emphasis in central Texas and the Dallas/Fort Worth Metroplex.

Brad's other projects relating to natural resources include water quality studies, biological evaluations, and wildlife surveys. Water quality projects include sampling and flow measurements in the Colorado River from Austin to Bay City and data analysis on historic water quality data in the Highland Lakes on behalf of the Lower Colorado River Authority.

Relevant Project Experience

Weston Solutions, Inc.- City of Austin Environmental Resource Inventories.

Project Manager and technical lead for preparation of ERI's addressing Phase II of the Violet Crown Trail and improvements at Fire Station #27 under a City of Austin Environmental Rotation Services Contract.

GCRE, LLC- City of Austin Environmental Resource Inventory, Proposed Riverbend Landing Development.

Project Manager and technical lead for preparation of an ERI addressing proposed mixed-use development of raw land in southeastern Travis County.

28 Years of Experience

Education

B.A. Environmental Science, 2nd Major in Biochemistry, Rice University, 1990

Certifications/ Registrations

- OSHA HAZWOPER Certification per 29 CFR 1910.120

Professional Affiliations

Society of Texas Environmental Professionals

bhamer@amaterra.com 512-329-0031 www.amaterra.com

Canyon Lake Water Supply Corp. Environmental Assessment, Canyon Lake, TX

Project Manager and technical lead for development of a TWDB Environmental Assessment addressing impacts of proposed improvements to multiple treatment plants, storage tanks, water mains, water lines, and office/warehouse facilities.

Lake Livingston Water Supply & Sewer Service Corp. Environmental Information Document, East Texas

Project Manager and technical lead for development of a TWDB Environmental Information Document addressing impacts of proposed improvements to water system improvements, including water lines, lift stations, supply wells, and auxiliary systems in 27 subdivisions in four counties in East Texas.

Freese & Nichols, Inc.- Environmental Survey and Clearance of Blake Manor Road Improvements.

Project Manager and technical lead for field survey and documentation for widening of Blake Manor Road in Travis County.

HDR, Inc.- NEPA Constraints Analysis for Capital Metro North Corridor Project.

Project Manager and technical lead for Constraints Analysis addressing possible routes and modes of mass transit in Williamson County and northern Travis County, to be incorporated in EIS addressing overall project.

RMT, Inc.- Walnut Creek Hike and Bike Trail Categorical Exclusion.

Project Manager and technical lead developing a Categorical Exclusion per TxDOT requirements on behalf of the City of Austin, addressing the proposed construction of a 3.2-mile hike and bike trail along Walnut Creek in northern Travis County.

KC Engineering, Inc.- Categorical Exclusion for Intersection Improvements, SH 29 at Cedar Hollow Road

Project Manager and technical lead for TxDOT Categorical Exclusion addressing improvements to SH 29 at Cedar Hollow Road in Williamson County.

Parsons- City of Austin Permitting Assistance for Reclaimed Water Line, Smith Road, Austin

Technical lead for preparation of General Permit Application and other permitting assistance for proposed installation of a reclaimed water line along Smith Road in southeast Austin.

Parsons- LCRA Colorado River Environmental Modeling System.

Technical lead for collection of extensive historical hydrological and meteorological data on three Highland Lakes on the Colorado River in support of development of the Colorado River Environmental Modeling System on behalf of the Lower Colorado River Authority.

QEA- Low-Flow Study of Colorado River.

Task leader and technical lead for AmaTerra, in conjunction with Parsons and Qualitative Environmental Analysis, LLC, for 24-hour water sampling of Colorado River from Austin to the Gulf of Mexico as part of a Low Flow water quality study conducted on behalf of the Lower Colorado River Authority.

Aaron R. Norment

Principal Investigator

Experience in Federal, State, and Local Governments
Private Industry Experience
Background in Prehistoric Texas Archeology

Aaron has worked in cultural resources management for more than a decade and serves as a Principal Investigator for AmaTerra. He is involved in multiple phases of projects and actively participates in archeological fieldwork, as well as performing laboratory artifact analysis. His experience includes participation in cultural resource management projects for federal, state, and local governments and agencies, as well as private industry. Fieldwork has taken Aaron from remote rural environments to the heart of sprawling urban centers.

While most of Aaron's focus centers on historic archeology, he also maintains a significant background in prehistoric Texas archeology. Recent significant projects include: data recovery excavations at an Antebellum/Civil War-era plantation site in Rusk County, Texas; archeological testing of 7 prehistoric sites in Maverick County, Texas; and mental detection and data recovery excavations of an Antebellum plantation in Rusk County, Texas.

Relevant Project Experience

Relocation of Unmarked Graves at the Roberts Cemetery, Troy, Texas. Served as field archeologist in the excavation and analysis of four unmarked graves. Project sponsored by the Texas Department of Transportation, Austin, Texas.

Cultural Resources Survey of Aquilla Lake Pool Areas, Hill County, Texas. Project archeologist for the lake survey. Directed all fieldwork, lab work, and write-up. Project sponsored by U.S. Army Corps of Engineers, Fort Worth District.

Data Recovery at Three Paluxy Sites, Fort Hood, Bell and Coryell Counties, Texas. Field archeologist assisting in the excavation of three Paluxy sites. Project sponsored by Fort Hood.

Archeological Survey for the Lake Alan Henry-Lubbock Pipeline, Lubbock, Texas. Project archeologist for the archeological survey. Involved in obtaining antiquities permit and coordinating other pre-field aspects of the project. Directed all fieldwork and report writing.

Archeological Survey for the Killeen/Fort Hood Regional Airport, Bell County, Texas. Project archeologist for the archeological survey, a project sponsored by the City of Killeen and Fort Hood, Texas. Directed

11 Years of Experience

Education

M.A. Anthropology, Texas Tech University, 2007
B.A. Anthropology, The University of Texas at Austin, 2004

Certifications/ Registrations

- Registered Professional Archeologist, 2010

Professional Affiliations

Council of Texas Archaeologists (CTA)
Texas Archeological Society (TAS)
Society for Historic Archaeology (SHA)

anorment@amaterra.com 512-329-0031 www.amaterra.com

fieldwork for the survey of ca. 350 acres to be impacted by the construction of an airport runway. Involved in archeological survey, GPS data collection, and report writing.

National Register Testing of Site 41CV286, Coryell County, Texas. Field archeologist for data recovery efforts at site 41CV286, a project sponsored by the Texas Department of Transportation, Austin, Texas. Involved in data recovery excavations.

Archeological Survey of the Dry Branch East Tributary, Williamson County, Texas. Served as project archeologist, conducted all fieldwork, and wrote final report. For City of Round Rock, Texas.

Archeological Survey of Eight Facility Areas in Cameron Park, City of Waco, Texas. Served as project archaeologist, conducted all fieldwork, and wrote final report. For City of Waco, Texas.

Archeological Survey for Proposed Improvements to 29 Acres of Cameron Park East, City of Waco, Texas. Served as project archeologist, conducted all fieldwork, and wrote final report. For City of Waco, Texas.

Archeological Excavations at the Levi Jordan Plantation, Brazoria County, Texas. Field archeologist for excavations at the plantation. Assisted in documentation and mapping of structures. Project sponsored by the Texas Historical Commission.

Pioneer Cemetery Grave Search/Relocation, Brazoria County, Texas. Field archeologist for the relocation and excavation of graves at the Pioneer Cemetery. Assisted in writing final report. Project sponsored by the Texas Department of Transportation, Austin, Texas.

Kurt A. Korfmacher

Senior Architectural Historian

15+ Years of Section 106 Experience
M.S. in Architectural Studies

Kurt Korfmacher is a Senior Architectural Historian for AmaTerra Environmental, Inc. Kurt also has served as a Historic Preservation Program Manager and has over 15 years of experience in conducting historic resources investigations. He is experienced in the essential areas of historic preservation and is well versed in Section 106 and the National Environmental Policy Act; is familiar with Section 4(f) of the Department of Transportation Act of 1966, and meets the criteria for professional qualifications for an Architectural Historian as defined by the National Park Service. Kurt is responsible for working with the program manager to draft project scopes and budgets; preparing research designs; conducting historic building surveys; preparing contextual documentation, property type identification and assessment to determine National Registry eligibility; and assessment of effect for Section 106 and NEPA compliance. Kurt has conducted numerous historic building surveys in rural and urban areas to identify and record historic properties.

In pursuit of his Master's degree, Kurt worked on a Historic American Building Survey (HABS) team documenting the Point Bolivar lighthouse on the Texas coast, near Galveston, Texas. The project included measuring drawings and photographic documentation of existing conditions and written historical narratives, and was award Third Place for the 2002 Peterson Prize. Kurt is fully qualified to carry out all work relating to history and architectural history under The Secretary of the Interior's Professional Qualifications Standards (36 CFR Part 61).

15 Years of Experience

Education

M.S. Architectural Studies, University of Texas at Austin, 2002

M.A. Candidate, Archaeology, New Mexico State University, Las Cruces, 1997-2000

B.A. Anthropology, The University of California at San Diego, 1995

Certifications/ Training

- National Preservation Institute Historic Bridges: Management, Regulations, and Rehabilitation (April 2017)
- National Preservation Institute Identification and Evaluation of Mid-Twentieth Century Buildings (May 2005)

Relevant TxDOT Project Experience

Reconnaissance Survey, FM 971, Williamson County, Texas (CSJ 2690-01-036, 2017-2018)

Contributing report author for a recon survey of FM 971 outside of Granger, Texas. The survey identified 11 bridges and/or bridge-class culverts and 5 historic-age residential properties. One individual property was recommended as eligible for listing in the NRHP. Kurt assisted in the NRHP evaluation of the eligible property and assessed effects to the property. Approval pending with TxDOT-ENV.

Reconnaissance Survey, RM 620, Williamson County, Texas (CSJ 0683-01-056, 2015)

Primary report author for a recon survey for RM 620 project in the City of Round Rock, Texas. The survey documented a total of 24 historic-age properties in the project APE, including one Recorded Texas Historic Landmark property and one RTHL designation had been previously removed. Following analysis, no properties

were recommended eligible for NRHP listing with a finding of no effect on historic properties. Kurt served as primary author for the project and produced the research design, headed up survey efforts, conducted research and property evaluations, and developed the findings of effect. The report was accepted by TxDOT-ENV in October 2015, following additional information provided to the Texas Historical Commission on the former RTHL property.

Reconnaissance Survey, IH 30 Frontage Roads, Dallas and Rockwall Counties, Texas (CSJ 0009-11-241, 2017)
Primary report author for a recon survey of Interstate 30 in the cities of Garland and Rowlett, Texas. The survey only identified one historic-age resource in the project APE, Lake Ray Hubbard. Following discussion with ENV historians, Kurt evaluated the reservoir as a rural historic landscape and concluded that it was not NRHP-eligible. Kurt headed up development of the research design and survey efforts, performed research and developed the historic context, evaluated the historic landscape, and produced the final findings of eligibility and effects. The report was accepted by TxDOT-ENV in January 2018.

Reconnaissance Survey, FM 2275, Gregg County, Texas (CSJ 2158-01-019 & 2158-01-020, 2016-2017)
Contributing report author for a recon survey of FM 2275 outside of Longview, Texas. A total of 62 properties were documented in the northern section of the East Texas Oil Field, one of the largest oil fields in the country. While none of the resources were individually recommended eligible for listing, the East Texas Oil Field was recommended as an eligible rural historic landscape at the state level under Criterion A in the area of industry. Kurt assisted in property analysis and context development, and evaluated the East Texas Oil Field and potential effect to the historic district. Approval pending with TxDOT-ENV.

Reconnaissance Survey, US 59 Bypass, Polk County, Texas (CSJ 0176-04-056 & 0176-05-104, 2016-2017)
Primary report author for a recon survey of US 59 outside of Corrigan, Texas. A total of 22 properties were documented in the piney woods around Corrigan, one of which was recommended for intensive survey. Following the completion of that survey (performed by a separate TxDOT consultant), the final report recommended no properties eligible for listing in the NRHP. Kurt headed up development of the research design and survey efforts, developed the historic context, evaluated the properties, and produced the final findings of eligibility and effects. The report was accepted by TxDOT-ENV in September 2017.

Reconnaissance Survey, SH 5, Collin County, Texas (CSJ 0047-04-022, 2016-2017)
Primary report author for a recon survey of SH 5 from the Grayson County Line through Melissa, Texas. A total of 121 properties were documented in the project APE, including one Recorded Texas Historic Landmark. Following analysis, four properties (including the RTHL) were recommended eligible for NRHP listing with a finding of no adverse effect to the historic properties. Kurt lead the survey efforts for the project, developed the historic context and assisted in the research, assisted in the property evaluations, and developed the findings of effect on the recommended eligible properties. The report was accepted by TxDOT-ENV in September 2017.

Windshield Survey, IH 35, Hays County, Texas (CSJ 0016-03-114, 2016-2017)
Primary report author for a windshield survey of IH 35 in San Marcos, Texas. A total of 37 properties and one potential historic district were documented in the project APE. Following analysis, none of the surveyed properties (including the potential historic district) were recommended eligible for NRHP listing. Kurt served as primary author and surveyed the potential historic district, conducted the property evaluations, and developed the findings of effect for the project. The report was accepted by TxDOT-ENV in May 2017.

Reconnaissance Survey, S.M. Wright Project Phase II-B, Dallas County, Texas (CSJ 0092-01-059 & 0092-14-088, 2016)

Primary report author for a recon survey for the S.M. Wright Phase II-B project in the City of Dallas, Texas. Part of a larger, on-going project concerning the former S.M. Wright Freeway (SH 310) and IH 45, the survey documented a total of 21 properties in the project APE as well as 2 NRHP-listed historic districts, 1 NRHP-eligible building, and 3 NRHP-eligible bridges. Following analysis, no additional properties were recommended eligible for NRHP listing with a finding of no adverse effect to the listed and eligible historic properties. Kurt served as primary author for the project and produced the research design, coordinated survey efforts, conducted research and property evaluations, and developed the findings of effect on the NRHP properties. The report was accepted by TxDOT-ENV in December 2016.

Reconnaissance Survey, Mile 3 North, Hidalgo County, Texas (CSJ 0921-02-321 & 0921-02-332, 2015-2016)

Primary report author for a recon survey for the Mile 3 North project between FM 492 and FM 2221 in Hidlago County, Texas. The survey documented a total of two historic-age properties in the project APE, including one irrigation district. Following analysis, no properties were recommended eligible for NRHP listing with a finding of no effect on historic properties. Kurt served as primary author for the project and produced the research design, conducted research and property evaluations, and developed the findings of effect. The report was initially submitted to TxDOT-ENV in June 2015, but project changes required a revision accepted in April 2016.

Reconnaissance Survey, R.S. Light Boulevard, Hays County, Texas (CSJ 0914-33-068, 2014-2016)

Primary report author for a recon survey for the R.S. Light Boulevard project in the City of Buda, Texas. The survey documented a total of four historic-age properties in the project APE. Following analysis, no properties were recommended eligible for NRHP listing with a finding of no effect on historic properties. Kurt served as primary author for the project and produced the research design, headed up survey efforts, conducted research and property evaluations, and developed the findings of effect. The report was accepted by TxDOT-ENV in February 2016.

Reconnaissance Survey, US 59, Liberty and Montgomery Counties, Texas (CSJ 0177-03-096, 2013-2015)

Primary report author for a recon survey for the US 59 project between the Montgomery and Liberty County line to the City of Cleveland, Texas. The survey documented a total of five historic-age properties in the project APE, including one cemetery. Following analysis, no properties were recommended eligible for NRHP listing with a finding of no effect on historic properties. Kurt served as primary author for the project and produced the research design, headed up survey efforts, conducted research and property evaluations, and developed the findings of effect. The report was accepted by TxDOT-ENV in March 2015 (a follow-up clarification occurred in January 2016 regarding changes to the project after Section 106 coordination was completed).

Windshield Survey, Spur 248, Smith County, Texas (CSJ 2558-01-015, 2013-2014)

Primary report author for a windshield survey for the Spur 248 project in the City of Tyler, Texas. The survey documented a total of 14 historic-age properties in the project APE. Following analysis, no properties were recommended eligible for NRHP listing with a finding of no effect on historic properties. Kurt served as primary author for the project and produced the research design, headed up survey efforts, conducted research and property evaluations, and developed the findings of effect. The report was accepted by TxDOT-ENV in July 2014.

Reconnaissance Survey, FM 664, Ellis County, Texas (CSJ 1051-01-037, 2013-2014)

Primary report author for a recon survey for the FM 664 project from Westmoreland Road to IH 35 in the City of Red Oak, Texas. The survey documented a total of 22 historic-age properties in the project APE. Following analysis, no properties were recommended eligible for NRHP listing, with no rural historic districts present; the report recommended a finding of no effect on historic properties. Kurt served as primary author for the project and produced the research design, headed up survey efforts, conducted research and property evaluations, and developed the findings of effect. The report was accepted by TxDOT-ENV in May 2014.

April 2019
Wetland and Waters of the U.S. Delineation and Biological Survey, Ellis County, Texas.

Conducted a wetlands and waters of the U.S. determination and delineation in Ellis County, Texas for six NRCS dam rehabilitation projects. On the same project, a threatened and endangered species survey was also conducted.

March 2019
Biological Survey, Erath County, Texas.

Conducted a biological survey for threatened, endangered, and rare species and their habitat in Stephenville, Erath County, Texas for a sewer line project. A MBTA nest survey was also conducted.

February 2019
Plant Presence/Absence Survey, Presidio County, Texas.

Conducted a presence/absence survey for threatened, endangered, and rare plants species and their habitat, specifically the Lloyd's mariposa cactus, in southeastern Presidio County, Texas for a TxDOT bridge replacement project.

September 2018
Wetland and Waters of the U.S. Delineation, Travis County, Texas.

Conducted a wetland and waters of the U.S. determination and delineation in Austin, Travis County, Texas for a TxDOT road expansion project. Work included wetland delineations, identifying waters of the U.S., and nationwide permit determination.

September 2018
Biological Evaluation, Harris County, Texas.

Conducted a biological evaluation for threatened, endangered, and rare species and their habitat in Humble, Harris County, Texas for a TxDOT detention ponds.

July 2018
Biological Evaluation, Travis County, Texas.

Conducted a biological evaluation for threatened, endangered, and rare species and their habitat in Austin, Travis County, Texas for a TxDOT road expansion project and a TxDOT sponsored pedestrian trail.

March 2018
Wetland and Waters of the U.S. Delineation, McLennan County, Texas.

Conducted a wetland and waters of the U.S. determination and delineation of the historic Waco Suspension Bridge over the Brazos River in Waco, McLennan County, Texas. Work included wetland delineations, identifying waters of the U.S., and nationwide permit determination.

October 2017
Vegetation Survey, Hidalgo County, Texas.

Conducted a vegetation survey for state threatened, endangered, and rare plant species and a survey of all plant species encountered in La Joya, Hidalgo County, Texas for a new TxDOT road construction project.

April 2019
Wetland and Waters of the U.S. Delineation and Biological Survey, Ellis County, Texas.

Conducted a wetlands and waters of the U.S. determination and delineation in Ellis County, Texas for six NRCS dam rehabilitation projects. On the same project, a threatened and endangered species survey was also conducted.

March 2019
Biological Survey, Erath County, Texas.

Conducted a biological survey for threatened, endangered, and rare species and their habitat in Stephenville, Erath County, Texas for a sewer line project. A MBTA nest survey was also conducted.

February 2019
Plant Presence/Absence Survey, Presidio County, Texas.

Conducted a presence/absence survey for threatened, endangered, and rare plants species and their habitat, specifically the Lloyd's mariposa cactus, in southeastern Presidio County, Texas for a TxDOT bridge replacement project.

September 2018
Wetland and Waters of the U.S. Delineation, Travis County, Texas.

Conducted a wetland and waters of the U.S. determination and delineation in Austin, Travis County, Texas for a TxDOT road expansion project. Work included wetland delineations, identifying waters of the U.S., and nationwide permit determination.

September 2018
Biological Evaluation, Harris County, Texas.

Conducted a biological evaluation for threatened, endangered, and rare species and their habitat in Humble, Harris County, Texas for a TxDOT detention ponds.

July 2018
Biological Evaluation, Travis County, Texas.

Conducted a biological evaluation for threatened, endangered, and rare species and their habitat in Austin, Travis County, Texas for a TxDOT road expansion project and a TxDOT sponsored pedestrian trail.

March 2018
Wetland and Waters of the U.S. Delineation, McLennan County, Texas.

Conducted a wetland and waters of the U.S. determination and delineation of the historic Waco Suspension Bridge over the Brazos River in Waco, McLennan County, Texas. Work included wetland delineations, identifying waters of the U.S., and nationwide permit determination.

October 2017
Vegetation Survey, Hidalgo County, Texas.

Conducted a vegetation survey for state threatened, endangered, and rare plant species and a survey of all plant species encountered in La Joya, Hidalgo County, Texas for a new TxDOT road construction project.

September 2017
Wetland and Waters of the U.S. Delineation, Bexar County, Texas.

Wetland Biologist for a wetland delineation and identification of waters of the U.S. for a 9.9-acre site located in San Antonio, Bexar County, Texas. Work included wetland delineations and identifying waters of the U.S.

September 2017
Wetland and Waters of the U.S. Delineation, Travis County, Texas.

Wetland Biologist for a wetland delineation and identification of waters of the U.S. for a 5.25-acre site located in Austin, Travis County, Texas. Work included wetland delineations and identifying waters of the U.S.

August 2017
Mussel Survey and Relocation, Hardin/Jefferson Counties, Texas.

Conducted a survey for mussels in Pine Island Bayou on the Hardin/Jefferson County line for a TxDOT bridge expansion project. Mussels were collected and relocated to another location with a TPWD relocation permit.

August 2017
Threatened and Endangered Species Habitat Survey, Travis County, Texas.

Conducted an Environmental Resource Inventory for the City of Austin for a Fire and EMS Station Expansion. This inventory consisted of a vegetation survey on an approximately 2.5-acre lot in Travis County, Texas.

June 2017
Threatened and Endangered Species Habitat Survey, Bexar County, Texas.

Conducted a threatened and endangered species habitat survey for the Fort Sam Houston Veterans Cemetery in San Antonio, Texas.

May 2017
Threatened and Endangered Species Habitat Survey, Travis County, Texas.

Conducted a threatened and endangered species habitat survey for a Coordination Letter of Map Revision for a flood plain restoration project in Travis County, Texas.

May and July 2017
Mussel Presence-Absence Surveys, Cameron and Hidalgo Counties, Texas.

Conducted presence/absence surveys for mussels in Edinburg, Harlingen, Rangerville, Brownsville, Mission, and Pharr, Texas for TxDOT bridge repair projects.

March 2017
Department of Energy Deep Borehole Test Project, Fort Stockton, Texas.

Field Biologist for threatened and endangered species, wetlands and waters of the U.S. for a 320-acre site located in Pecos County, Texas. Work included wetland identification, identifying waters of the U.S. and plant and animal habitat identification.

March 2017-August 2018
Seabreeze Landfill Expansion, Lake Jackson, Texas.

Field Biologist for threatened and endangered species, wetland delineation, and identification of waters of the U.S. for a 150-acre site located in Brazoria County, Texas. Work included multiple wetland delineations, identifying waters of the U.S., plant and animal habitat identification, an approved jurisdictional determination, and preparation of an USACE Individual Permit and mitigation plan.

March, April, July, and September 2017
Northern Aplomado Falcon Surveys, Cameron County, Texas.

Conducted presence/absence surveys in March and April during the breeding season and in July and September for Northern Aplomado Falcon for a TxDOT roadway expansion project north of Brownsville, Texas.

January 2015-May 2015
Lone Star Express 24-Inch and 30-Inch Pipeline Project.

Environmental scientist and wetland delineator for the Lone Star Express Pipeline starting near Midland, Texas and ending in Mont Belvieu, Texas. Work included wetland delineation, identifying waters of the U.S. and plant and animal identification along the pipeline route for USACE permits and applications.

June 2015-September 2015
Trans-Pecos Pipeline Project.

Environmental scientist and wetland delineator for the Trans-Pecos Pipeline starting near Pecos, Texas and ending at the Rio Grande River near Presidio, Texas. Work included plant and animal identification, wetland delineation, identifying waters of the U.S. and threatened and endangered species surveys and habitat composition for USACE and FERC permits and applications. Along with these tasks, inspections of most creeks, draws, and drainages were observed for the purpose of reclamation so that the original contour would be put back properly after construction.

September 2015-January 2016
Comanche Trail Pipeline Project.

Environmental scientist and wetland delineator for the Comanche Trail Pipeline starting near Pecos, Texas and ending at the Rio Grande River near El Paso, Texas. Work included plant and animal identification, threatened and endangered species surveys and habitat composition for USACE and FERC permits and applications. Along with these tasks, inspections of most creeks, draws, and drainages were observed for the purpose of reclamation so that the original contour would be put back properly after construction.

June 2016-August 2016
Lone Star Express 30-Inch Pipeline Project.

Environmental Inspector for the Lone Star Express 30-Inch Pipeline during the reclamation phase of construction. Duties included erosion and slope control, adequate reseeding and vegetation surveys, and observing to make sure the correct construction techniques are used to ensure the pipeline rights-of-way would be put back properly and will be able to maintain its proper configuration in the future.

APPENDIX B

Debarment and Licensing

I, the undersigned, being duly sworn or under penalty of perjury under the laws of the United States and the State of Texas, certifies that Firm named hereinbelow and its principals:

(a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any federal department or agency:

(b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public* transaction or agreement under a public transaction; violation of federal or state antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity* with commission of any of the offenses enumerated in paragraph (1)(b) of this certification.

(d) Have not within a three-year period preceding this application/proposal had one or more public transactions* terminated for cause or default.

(e) Is registered and licensed in the State of Texas to perform the professional services which are necessary for the project; and

(f) Have not been disciplined or issued a formal reprimand by any State agency for professional accreditation within the past three years.

K.C. Engineering, Inc.
Name of Firm

Greg Haley, P.E.
Signature of Certifying Official

Greg Haley, P.E.
Printed Name of Certifying Official

President
Title of Certifying Official

OCTOBER 8 2021
Date

Where the Firm is unable to certify to any of the statements in this certification, such Firm shall attach an explanation to this certification

*Federal, State, or Local

SUBSCRIBED and sworn to before me the undersigned authority by Greg Haley, P.E., the President of K.C. Engineering, Inc. on behalf of said Firm.

Notary Public in and for the
State of Texas

My commission expires: 01/31/24

KASEY R HALLMARK
NOTARY PUBLIC
STATE OF TEXAS
MY COMM. EXP. 01/31/24
NOTARY ID 12639549-0

APPENDIX C

CONFLICT OF INTEREST QUESTIONNAIRE

FORM CIQ

For vendor doing business with local governmental entity

This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.

This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. *See* Section 176.006(a-1), Local Government Code.

A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.

OFFICE USE ONLY

Date Received

1 **Name of vendor who has a business relationship with local governmental entity.**

N/A

2 ☐ **Check this box if you are filing an update to a previously filed questionnaire.** (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)

3 **Name of local government officer about whom the information is being disclosed.**

_____

Name of Officer

4 **Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.**

A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?

☐ Yes ☐ No

B. Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?

☐ Yes ☐ No

5 **Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.**

6 ☐ Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).

7

_____ _____

Signature of vendor doing business with the governmental entity Date

CONFLICT OF INTEREST QUESTIONNAIRE
For vendor doing business with local governmental entity

A complete copy of Chapter 176 of the Local Government Code may be found at http://www.statutes.legis.state.tx.us/Docs/LG/htm/LG.176.htm. For easy reference, below are some of the sections cited on this form.

Local Government Code § 176.001(1-a): "Business relationship" means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:

(A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or an agency of a federal, state, or local governmental entity;

(B) a transaction conducted at a price and subject to terms available to the public; or

(C) a purchase or lease of goods or services from a person that is chartered by a state or federal agency and that is subject to regular examination by, and reporting to, that agency.

Local Government Code § 176.003(a)(2)(A) and (B):

(a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if:

***

(2) the vendor:

(A) has an employment or other business relationship with the local government officer or a family member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds $2,500 during the 12-month period preceding the date that the officer becomes aware that

(i) a contract between the local governmental entity and vendor has been executed; or

(ii) the local governmental entity is considering entering into a contract with the vendor;

(B) has given to the local government officer or a family member of the officer one or more gifts that have an aggregate value of more than $100 in the 12-month period preceding the date the officer becomes aware that:

(i) a contract between the local governmental entity and vendor has been executed; or

(ii) the local governmental entity is considering entering into a contract with the vendor.

Local Government Code § 176.006(a) and (a-1)

(a) A vendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:

(1) has an employment or other business relationship with a local government officer of that local governmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);

(2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or

(3) has a family relationship with a local government officer of that local governmental entity.

(a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:

(1) the date that the vendor:

(A) begins discussions or negotiations to enter into a contract with the local governmental entity; or

(B) submits to the local governmental entity an application, response to a request for proposals or bids, correspondence, or another writing related to a potential contract with the local governmental entity; or

(2) the date the vendor becomes aware:

(A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);

(B) that the vendor has given one or more gifts described by Subsection (a); or

(C) of a family relationship with a local government officer.