

American Structurepoint has one office location in the state of Texas.
Our office is located at 3711 South Mopac Expressway, Building One, Suite 350, Austin, Texas 78746

April 17, 2019

Williamson County Purchasing Department
100 Wilco Way, Suite P101
Georgetown, Texas 78626

Dear Selection Committee:

American Structurepoint is excited to share our qualifications for the extension of CR 258 with you. Our staff's experience leading similar projects, including projects for Williamson County, makes us a strong partner for the County. We've brought in local specialty firms for karst issues, environmental investigations, survey and right-of-way, and public involvement. Our public involvement team includes **Will Conley**, who brings a fresh perspective to the process from his most recent role as a Hays County commissioner.

Will joined American Structurepoint this spring, and his presence on our team brings added value to our projects. Will's contacts in Central Texas are unparalleled. He will work alongside **Concept Development and Planning (CD&P)** to create a positive image of the project amongst local residents and businesses. He will also work with our design team to maintain open lines of communication with local agencies, providing appropriate updates as the project progresses and proactively managing potential issues before they become delays.

Environmental investigation and documentation will be a critical path item for maintaining the project's schedule. **SWCA** has joined our project team to prepare environmental documents; their extensive local experience means that they will be applying best practices from previous projects to facilitate a smooth completion of your project. Based on lessons learned from previous projects in the area, we've also brought **Kemble White with Cambrian Environmental** onto our team. Dr. White holds a PhD of Geology and has extensive experience with the karst resources of Central Texas.

All project tasks will be coordinated and supervised by our project manager, **Fernando Gaytan**. Fernando is a proven leader of transportation projects. He has led similar roadway extension and greenfield projects in Williamson County and in surrounding communities. Fernando's availability is a good match for the CR 258 project; a multi-year project that required much of his time is now substantially complete, creating capacity for him to lead this design.

The project team we've assembled for CR 258 is well matched for this project scope, and I'm looking forward to working with Williamson County again.

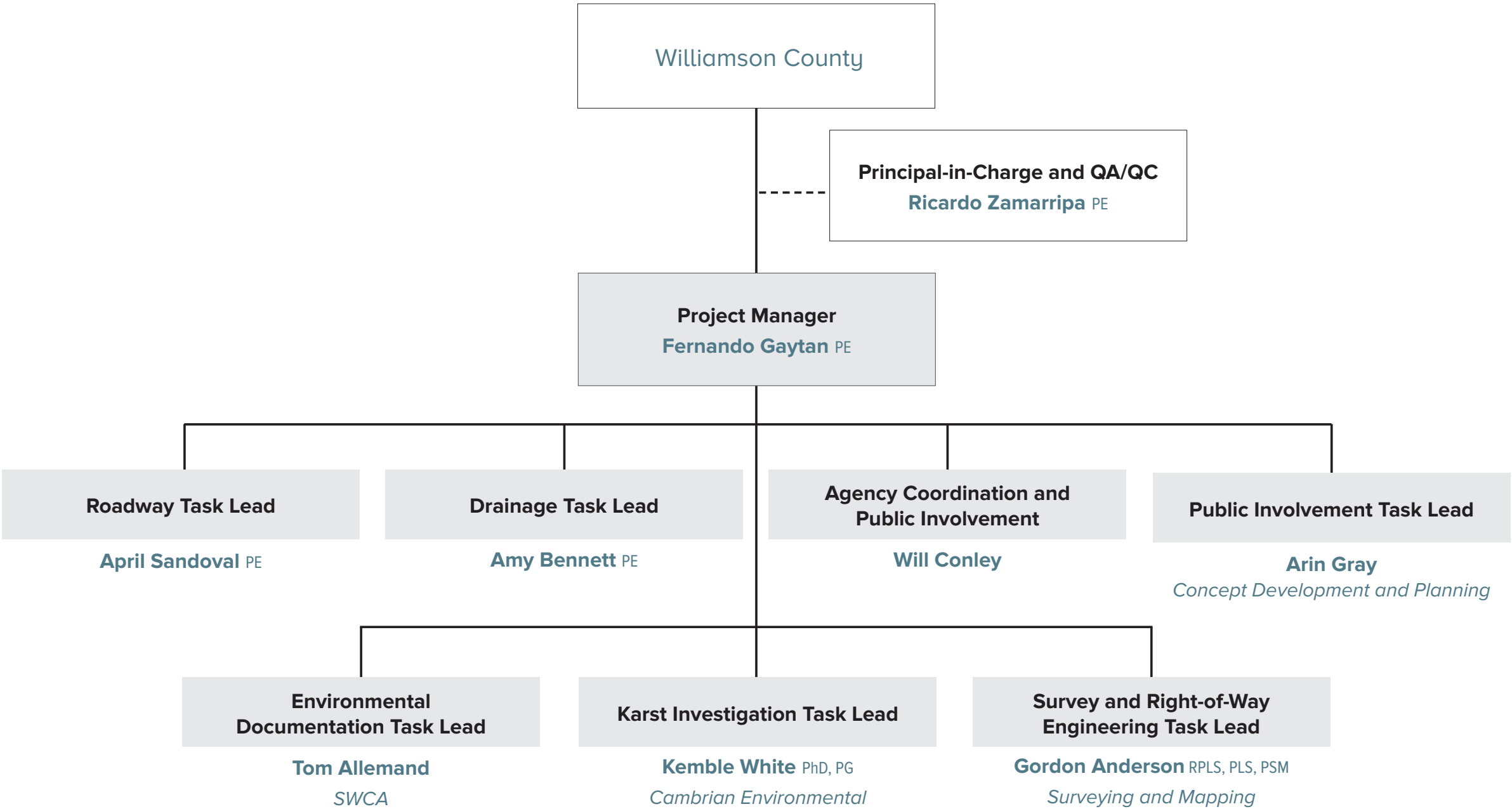
Very truly yours,
American Structurepoint, Inc.



Ricardo J. Zamarripa, PE
Vice President and RFQ Contact
Email: rzamarripa@structurepoint.com
Cell: 512.750.5805
Office: 512.494.6037
Location: 3711 South Mopac Expressway,
Building One, Suite 350, Austin, Texas 78746



ORGANIZATIONAL CHART
EXPERIENCED ROADWAY DESIGN LEADERS



American Structurepoint
3711 South Mopac Expressway
Building One, Suite 350
Austin, Texas 78746

Cambrian Environmental
4422 Pack Saddle Pass,
Suite 204
Austin, Texas 78745

**Concept Development
and Planning (CD&P)**
2233 North Loop
Austin, Texas 78756

Surveying and Mapping (SAM)
4801 Southwest Parkway
Building Two, Suite 100
Austin, Texas 78735

SWCA
4407 Monterey Oaks Boulevard
Building One, Suite 110
Austin, Texas 78749

AVAILABILITY OF COMMITTED LEADERS

Our project manager and task leaders have availability to fully meet the needs of the CR 258 extension project. They will be backed by additional skilled professionals from our team. Our staff is available and prepared to begin this project immediately after we receive the Notice to Proceed.

Project Manager

Fernando Gaytan, PE **50%**
American Structurepoint

Principal-in-Charge and QA/QC

Ricardo Zamarripa, PE **25%**
American Structurepoint

Roadway Task Lead

April Sandoval, PE **50%**
American Structurepoint

Drainage Task Lead

Amy Bennett, PE **50%**
American Structurepoint

Agency Coordination and Public Involvement

Will Conley **60%**
American Structurepoint

Public Involvement Task Lead

Arin Gray **10%**
Concept Development and Planning

Environmental Documentation Task Lead

Tom Allemand **30%**
SWCA

Karst Investigation Task Lead

Kemble White, PhD, PG **30%**
Cambrian Environmental

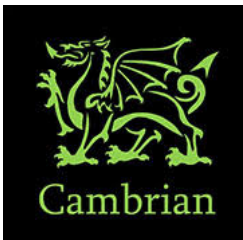
Survey and Right-of-Way Engineering Task Lead

Gordon Anderson, RPLS, PLS, PSM **40%**
Surveying and Mapping

Availability numbers assume a Notice to Proceed will be issued in June 2019.



AMERICAN
STRUCTUREPOINT
INC.



SWCA
ENVIRONMENTAL CONSULTANTS

PROJECT TEAM EXPERIENCE, KNOWLEDGE, SKILLS, AND ABILITIES RELATED TO ROADWAY DESIGN



American Structurepoint's team members have extensive design experience, technical excellence, and a record of proven performance to complete the CR 258 roadway design.

Project Leadership

Project Manager Fernando Gaytan will be your primary point of contact to lead the project. With 34 years of project management/design experience on roadway projects throughout Texas, Fernando understands local challenges and is able to deliver safe, effective, and economical solutions in an expedient and proactive manner. His similar experience includes serving as project manager on the schematic and final design phases of the new location Ronald Reagan Boulevard North Phase IV. He worked in Williamson County as the GEC for the Road Bond Program and Pass-Through Finance Program and as project manager for the I-35 William Cannon to Stassney Improvements.

Having effectively served as principal on over 20 Central Texas projects, **Principal-in-Charge Ricardo Zamarripa** will provide oversight of the project, including staffing resources, financial performance, and monitoring quality and schedule of deliverables. He will be involved to make sure all deliverables follow our 5-step QA/QC process before delivery.

Task Leaders

Roadway Task Leader April Sandoval will bring Williamson County 12 years of expertise in roadway planning and design, encompassing streets and corridors, rural roadways, and major interchanges. She has experience developing conceptual alignments that improve mobility and safety, performing alternative analysis, preparing schematics, and participating in public and stakeholder meetings. As roadway lead, she has delivered roadway projects for new location arterials, including Arterial A and RM 2769.

Drainage Task Leader Amy Bennett has successfully served as the drainage lead designer for the planning and design of several projects on new location very similar to CR 258. She also was the lead reviewer for drainage and utilities for Williamson County as part of the GEC team. She brings extensive knowledge of the drainage requirements, standards, and procedures for Williamson County drainage design.

Public Involvement and Agency Coordination will be provided by **Will Conley**. As a former CAMPO chairman, Will brings experienced agency coordination and public involvement (PI) support to the County that no other team can offer. He will effectively lead the coordination between the County and affected municipalities. He will also assist the County in their PI efforts with the skills and lessons-learned successfully leading the

PI for Hays County's transportation plan, bonds, and projects, such as the highly-regarded FM 150 Corridor Study.

Public Involvement Task Lead Arin Gray (CD&P) is currently leading public involvement efforts for multiple transportation projects in Williamson County. Her current knowledge of the County's priorities and ongoing relationships with stakeholders will allow her to begin effective communication immediately at the project's commencement.

Survey and Right-of-Way Lead Gordon Anderson (SAM) has over 28 years of experience managing parcel platting, design, and construction surveying operations with proven success. He has managed surveys for highways/roadways, drainage structures, creek drainage areas, railroad, and bridge structures sites.

Environmental Documentation Task Lead Tom Allemand (SWCA) has over 20 years of direct experience in the fields of biology, environmental science, planning, and project management. His years of expertise include up-to-date FHWA and TxDOT NEPA compliance and due diligence documentation for road and highway projects, including environmental permitting and local, state, and federal state agency coordination. He has also managed, performed, and obtained numerous environmental clearances for environmental impact statements (EISs), environmental assessments (EAs), categorical exclusions (CEs), and EIS/EA reevaluations. Tom currently serves as a NEPA Subject Matter Expert assisting with your Road Bond Program.

Karst Investigation Task Lead Kemble White (Cambrian Environmental) has specialized in land-use issues unique to the Central Texas growth corridor since the 1990s. His karst survey work has contributed to the establishment of thousands of acres of preserve land within the Edwards Aquifer recharge and contributing zones through land acquisitions programs, including the ESA Section 6 program. His focus is the Endangered Species Act and water quality regulations pertaining to caves, springs and the Edwards aquifer. He helps his clients find the middle ground between the needs of resource protection and human population growth. Dr. White's specialties include regulatory issues surrounding endangered karst invertebrates and Eurycea salamanders, expert witness testimony, land use planning in environmentally sensitive areas, public outreach, preserve design, habitat conservation planning, Texas Commission on Environmental Quality (TCEQ) Geological Assessments and associated reports, City of Austin Environmental Assessments, and consulting on caves encountered during construction. He has a particular depth of experience with transportation projects.

The American Structurepoint team understands that the CR 258 project for the approximately 0.5-mile extension from Sunset Ridge Drive to US 183 will complete the east-west connectivity between US 183 and Ronald Reagan Boulevard. The project allows opportunities for future development, roadway safety improvements, and drainage upgrades to match the recently reconstructed part of CR 258 to the east. Our team has identified the following **challenges/opportunities and solutions** for the project.

Plan, Prepare, and Design Schematic

During the schematic phase, we will perform an alignment/constraints analysis on CR 258 to develop an optimal, cost-efficient alignment in accordance with County standards.

Drainage: We will obtain FEMA data (Dyeus/Dycus Branch crossing (FEMA Zone X) near the east end), drainage data, and consider future land use to determine the most cost-effective drainage design. We will perform existing/proposed hydrologic and hydraulic analysis using new Atlas 14 data, and check any adverse water surface elevation impacts. Due to the hilly terrain, we will evaluate steep slope protection/erosion control BMPs.

Traffic and Safety: We will perform a traffic analysis of the intersection to determine signal warrant and to recommend configurations (number of lanes, turn lane storage length, wide shoulders) to address future traffic demands.

The proposed CR 258 extension will intersect across from Long Run Road into US 183 on the west end. Trucks from nearby quarries are expected to travel along CR 258 between Ronald Reagan Boulevard and US 183. We will coordinate with TxDOT at this intersection to make sure we take into account the future plans for US 183.

At the east project end, Sunset Ridge intersects CR 258 on a sharp horizontal curve. We will evaluate sight distance for adequacy and create intersection geometry to provide a safe design. We will explore alternatives to avoid Sunset Ridge and existing CR 258 leg offsets.

Utility Protection and Relocation: Four utility owners were identified from field visit, GIS, and Texas 811. The two wide utility easements for overhead electric and gas (with three Enterprise Pipelines). We will evaluate alignment options to have the least impact to utilities (i.e. meet UAR horizontal and vertical clearance with overhead electric) and prepare a utility conflict matrix to assist the County with utility coordination.

Edwards Aquifer/Water Quality: Since the project lies in the Contribution Zone, a CZ Plan is required per TCEQ. We will plan for permanent BMPs, such

as vegetated filter strips, to fit in the proposed ROW. Anticipated perched groundwater will be mitigated with a dewatering plan in the SW3P.

Survey and Identify Needed Right-of-Way

Obtaining Right-Of-Entry: SAM will initiate ROE early on to perform the survey and avoid possible delays. We will use ground survey to optimize the alignment, profile, and cross-sections and to determine the ROW requirements.

Right-of-Way Acquisition & Preservation: SAM will do the abstracting, Title Company Reports, and extensive ROW/easement research early to keep the project on schedule. SAM will do the retracement survey to facilitate required ROW decisions for the design improvements.

ROW acquisition poses a challenge due to the approximately 6 parcels impacted by the project. We will match the newly reconstructed section of CR 258 east of Sunset Ridge (approximately 120' ROW, two 12' lanes, 8' shoulders) to preserve ROW for the future arterial in the County's LTRP. The alternatives analysis will help us to optimize the alignment to avoid inefficient parcel remainders as much as possible.

Conduct Public Involvement

To allow consistent and effective interaction with the public, CD&P will be the "face" of the project. We will attend neighborhood or individual meetings to address safety and noise concerns. These one-on-one meetings will allow us to anticipate design issues and respond to stakeholder concerns. Innovative 3D modeling renderings will be created to help the public envision the final project and garner support.

Prepare Environmental Documents

CR 258 will tie into the TxDOT-maintained US 183 on the west end, requiring NEPA assessment. SWCA will prepare the documentation for a TxDOT (d)-list Categorical Exclusion. Early investigations show that Karst caves, geological assessment, salamander habitats, parks, and cemeteries are not anticipated. However, a potential golden-cheeked warbler habitat may exist, requiring further investigation and County RCHP application. WOTUS presence with field delineation will be confirmed. Cultural resources investigations will be done to conform to THC/Antiquities Code of Texas.

Prepare Estimates of Probable Cost

Our goal is to provide a reliable cost estimate so the County can appropriately budget for the project. Having worked with public clients in Central Texas, we maintain a local/statewide database of project bid tabs. The cost estimate will be prepared according to the current practices for Williamson County and will include all work items required for construction.

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Appendix A

Resumes of Project Manager and Key Staff

RELEVANT PROJECT EXPERIENCE

Ronald Reagan Boulevard North Phase IV Planning, Environmental, and PS&E Williamson County, Texas

Role: Project Manager

Project Description: Schematic and final design services for a new 6-mile, 4-lane divided section from SH 195 to IH 35. The design included three bridges, nine major cross culverts, and numerous driveway culverts. Coordination with Williamson County was necessary to develop an alignment that was cost-effective while minimizing environmental impact to the area. The design incorporated an interim 2-lane section. Ensured the design accommodated the proposed improvements to cross streets, including a future SH 195 realignment and overpass. The scope included environmental studies, alignment optimization, earthwork determination and balance, design for future expansion to 4 lanes, permitting, and development of a water pollution abatement plan to meet the Edward's aquifer regulations. The roadway is designed to meet Williamson County and Texas Department of Transportation design standards.

Activities Performed: Set the profile grade line to optimize the earthwork along the route, layout of pavement marking and signing plans along existing SH 195 for the tie in and development of left turns into Ronald Reagan, including relocation of a commercial private driveway, drainage plans, and widening. Fernando designed plan and specified roadside protection for the columns of the new SH 195 overpass over Ronald Reagan. Fernando designed several revisions to driveways during construction, and updated the WPAP and coordinated with TCEQ to obtain a revised permit for the project.

Project Relevance: Wilco Road Bond project; new location similar to CR 258 road extension; interim construction of future wider corridor

Travis County Jesse Bohls Bridge Replacement, Planning, Environmental, and PS&E Travis County, Texas

Role: Project Manager; Lead Designer

Project Description: PS&E for realignment of 0.25 miles of Jesse Bohls Road in Travis County, including replacement of a bridge over Wilbarger Creek and the design of three culvert replacements. The alternative analysis determined the footprint of the ultimate 4-lane divided arterial within the 114 feet of ROW. The planning of the route involved using context-sensitive methods during the public meetings. Fernando was instrumental in finding a drainage solution to a property owner's concern about drainage along a flat area along the edge of his property. Once the roadway alignment was determined, location of the replacement structure was finalized. Construction cost approximately \$3.5 million. The project was completed in 2016.

Activities Performed: Led QA/QC of the HEC-RAS modeling for Wilbarger Creek and adjustments to the model's drainage area; design of three culverts crossing the new alignment of Jesse Bohls; ditch design along Jesse Bohls - which was located in a very flat terrain and required careful placement of ditch and cross culverts; revisions to the profile grade line in Geopak and macrostrain; producing general notes, specifications and estimates, including producing the bid documents to be included in the County's bid package.



Education

» Bachelor of Science, Civil Engineering, University of Texas at Austin, 1984

License and Certifications

» Professional Engineer, Texas, #92244

» TxDOT Precertification Sequence #14240

» TxDOT Precertification Categories: 3.1.1, 3.2.1, 3.3.1, 4.1.1, 4.2.1, 4.3.1, 7.1.1, 9.1.1, 10.1.1, 10.2.1, 11.1.1

Mr. Gaytan is a senior project director with 34 years of experience in civil engineering. He specializes in transportation planning, design, and construction. He has been involved in Texas projects in various roles, such as designer, owner's representative, quality control manager, and project manager. His areas of expertise are roadway planning and design, drainage design, and traffic control plans. He is experienced in various methods of project delivery and financing, from traditional design/bid/build and design/build projects to pass-through financing. He is a client liaison and supervisor for other professional engineers. He also reviews professional service agreements, manages quality control, and is responsible for the review of design, construction plans, cost estimates, specification, and engineering reports.

Project Relevance: Road project on new location; topography, farm land use, and soils similar to CR 258; phased design of interim 2-lanes of future 4-lane facility.

Arterial A, Planning, Environmental, and PS&E Travis County, Texas

Role: Project Manager

Project Description: Design of a proposed 4-lane divided major arterial between Parmer Lane and US 290 in northeast Travis County. The limits of the study are from FM 734 (Parmer Lane) to US 290 East. The primary objective of Arterial A was to provide much needed north-south connectivity in northeast Travis County for the increasing development being planned in the area. The project's goal was to utilize context sensitive solution (CSS) principles to develop safe transportation designs in harmony with community, aesthetic, historic, and environmental values for expedited approval of the project. The team developed alternatives analysis, context-sensitive solutions, final schematic and 60% plans, specifications, and estimates. Services included horizontal and vertical controls, hydraulic analysis, traffic control plans, signing and striping, traffic signals, environmental documentation, geotechnical reports, survey, right-of-way strip maps, utility coordination, bid phase services, and coordination with Travis County, City of Austin, Central Texas Regional Mobility Authority, Texas Department of Transportation, CapMetro, and City of Pflugerville officials.

Activities Performed: Project management; QA/QC of 30% and 60% Plans; coordination with City of Pflugerville personnel to relocate existing waterline

Project Relevance: New location; alternative analysis and schematic; public involvement

Road Bond Program 2000 and 2006 Williamson County, Texas

Role: Project Manager at the GEC office

Project Description: 2000 Road Bond Program – Involved in program administration, design management, construction management, public information, and document control for the \$350 million road bond program. 2006 Road Bond Program – Worked with Williamson County bond task force for development of project list for November 2006 \$228 million bond election.

Activities Performed: 2000 Program – Served as general public contact regarding the Road Bond Program; attended and presented public meetings; managed construction contract execution and administration; provided utility coordination oversight, QA/QC, and management of construction services staff. Reviewed RFIs, change orders, and contractors' pay estimates. Coordinated with TxDOT and prepared work authorizations and project budgets.

2006 Program – Prioritized projects, provided estimating, and coordinated with local entities; provided oversight and supervision of consultants and presentation of weekly updates to county commissioners; attended project meetings as needed; managed the design plan review effort; provided client coordination regarding project status, schedules, and contract issues.

Project Relevance: Familiarity with both GEC and County coordination and standards; ROW acquisition determination and coordination; meetings with public and property owners; coordination with UPRR on several US 79 projects.

TxDOT SH 130 TTA Segments 1-4, Interim and Ultimate Schematic Optimization, Environmental Reevaluation and PS&E Williamson and Travis Counties, Texas

Role: Lead roadway engineer for Segment 4

Project Description: Design of Segment 4, which extends 9.43 miles from south of the Colorado River to US 183 and consists of road, rail, and utility corridor for a 4-lane controlled-access toll road with ramps, toll plazas, frontage roads, and eight diamond interchanges.

Activities Performed: Directed the engineering evaluation and planning services for the optimization of the interim schematic and ultimate schematic for Segment 4. Coordinated with the environmental consultant to provide information for use in the reevaluation of the environmental document. Avoided multimillion dollar utility relocations of high-pressure fuel and gas lines by revising the profile and protecting lines in place. Fernando's big picture approach to the schematic optimizations to the ROW and ditches, as well as profile changes, allowed for savings in retaining walls, earthwork, and ROW while ensuring positive drainage.

Supervised design team and had responsible charge of the roadway portion of the plans, determination of ROW needs, design speed, clear zone and ADA compliance as well as all aspects of geometry and coordination with other disciplines involved in the project. Responsible charge of Sections 1, 5, 14, and 15H. Developed alternative designs and cost estimates for value engineering and RCPs. Responded to RFIs and field change redesigns. Presented roadway testimony at the ROW condemnation special commissioner's hearing.

Project Relevance: Williamson County; local soils; ROW determination/optimization; new location

I-35 at East William Cannon and Stassney Austin, Texas**Role:** Project Manager

Project Description: 2-mile-long PS&E project valued at \$78 million construction along I-35 in Austin. The project consisted of overpass reconstruction of two bridges for Stassney Lane and William Cannon Boulevard over I-35. U-turn bridges at these intersections were also added and two frontage road bridges over Williamson Creek were replaced to increase the clearance over the creek for a total of eight new bridges. Project improvements also included adding auxiliary lanes and ramps along I-35. The scope also included the design of a shared use path in both the southbound and northbound direction, high mast illumination, ITS systems, signalization of the intersections, storm sewer design and Hydrologic studies for Williamson Creek, and extensive utility coordination on an expedited schedule. The traffic control was accomplished without reducing the number of existing lanes except for short periods of time. Innovative practices used for TCP included using asphalt base at intersection and for grade changes to expedite construction, using movable concrete barriers, using concrete for base in areas of narrow widening, and the use of incentives/disincentives for certain milestones.

Activities Performed: Project management, coordination meetings, led QC and QA, agendas and minutes, invoicing, schedule and budget tracking and adherence, resolution of issues, coordination of sub-consultant's performance and deliverables, coordination with client and GEC

Project Relevance: Utility relocation and protection; coordination with various stakeholders and GEC

Ricardo Zamarripa, PE
Principal-in-Charge and QA/QC

RELEVANT PROJECT EXPERIENCE

City of Georgetown Northwest Boulevard Georgetown, Texas

Role: Principal; Project Manager

Project Description: Alignment study, schematic, and PS&E design for the extension of NW Boulevard over IH 35 and upgrading the existing 2-lane roadway to a 4-lane roadway. The project includes the work from Austin Avenue to Washam Drive. Project required significant coordination for new location bridge over IH 35.

Activities Performed: Led production team; alternative analysis; and TxDOT coordination

Project Relevance: Roadway extension; ROW determination; schematic; located in Williamson County; TxDOT coordination

Hays County FM 1626 Segment A Hays County, Texas

Role: Principal-in-Charge; Project Manager

Project Description: Schematic and PS&E design of 3.2-mile widening and reconstruction on existing alignment for Hays County under Pass-Through Finance Agreement with TxDOT. The limits for this project were between FM 2770 and RM 967 in Hays County, Texas. This project required following LGPP guidelines and coordination with Hays County GEC, the County, TxDOT, and adjacent projects. Project included both urban and rural proposed segments, utility coordination, TCEQ coordination for Edwards Aquifer recharge and transition zone, ROW acquisition, MAPO meetings, drainage, bridge structures, and retaining walls.

Activities Performed: Managed production team; attended ROW acquisition meetings with landowners; prepared general sheets; performed quality control of drawings/calculations; led TxDOT coordination

Project Relevance: Schematic; county project; ROW determination and acquisition; TxDOT coordination

Travis County FM 1626 Improvements Travis County, Texas

Role: Principal-in-Charge; QA/QC Manager

Project Description: Environmental documents, schematic, and PS&E design for the reconstruction and widening of FM 1626 from 1,100 feet west of Brodie Lane to FM 2304. The project was funded through a pass-through finance agreement between Travis County and TxDOT.

Activities Performed: Coordinated w/ Public Works Director; participated in public involvement; performed quality control on schematic; and managed quality assurance process.

Project Relevance: Environmental documents; ROW determination and acquisition; schematic; county project; TxDOT coordination

US 271 Relief Route Pass Through Toll Project, Pate Transportation Partners/TxDOT Atlanta District Titus County, Texas

Role: Roadway Task Leader

Project Description: PS&E development of a 6.1-mile new location controlled access facility. Prepared plans for the mainlanes, frontage roads, ramps, cross streets, grading, and roadway details. Substantial coordination effort with Union Pacific RR, geotechnical engineers, and environmental study was required for the project to comply with FHWA Criteria and Regulations. Prepared the PS&E from 30% design to 90% plans in just over three months. This project required multi-agency coordination with Titus County, TxDOT, UPRR, and FHWA.



Education

» MBA, Business Management,
St. Edwards University, 2005

License and Certifications

» Professional Engineer, Texas, #92818

» TxDOT Precertification Sequence #13021

» TxDOT Precertification Categories: 1.2.1, 1.3.1, 1.4.1, 1.6.1, 3.1.1, 3.2.1, 3.3.1, 3.4.1, 3.5.1, 3.6.1, 4.1.1, 4.2.1, 4.3.1, 4.4.1, 8.1.1, 8.2.1, 10.1.1, 10.2.1, 11.1.1

Training

» Local Government Project Procedures

» Qualification for the TxDOT-Texas
Engineering Extension Service

Mr. Zamarripa has 19 years of experience in transportation engineering and project management including schematic design, roadway design, traffic control, illumination, hydrology and hydraulics, and construction phase services. He is experienced in the design of rural and urban roadways, and tollway facilities.

Activities Performed: Roadway geometry for five new location grade separations; one new location RR grade separation; frontage roads and ramps; retaining wall design; grading; roadway details

Project Relevance: New location facility

290 E from US 183 to SH 130, CTRMA Austin, Texas

Role: Assistant Project Manager and Roadway Task Leader

Project Description: Design plan development converting 3.2 miles of roadway from a 4-lane divided facility to a 6-lane limited access tollway facility with frontage roads and ramps. Project includes five interchanges and three FEMA crossings. Responsibilities included project management, schematic optimization and development of construction plans involving roadway geometrics, retaining walls, pedestrian ramps, sidewalk and shared use path design. Coordinated signal design with City of Austin and TxDOT. Coordinated utility relocation and design including a dedicated utility corridor within the TxDOT ROW. During schematic optimization phase, reduced construction cost by \$2.5 million dollars. The project was successfully completed under budget and within accelerated schedule through extensive coordination and project oversight.

Activities Performed: Led production team and subconsultants; schematic optimization; designed roadway geometrics to grade separate three intersections; grading; shared-use path; retaining walls; and ADA compliance

Project Relevance: Schematic optimization; TxDOT Coordination

Cypress Creek Boulevard Realignment Round Rock, Texas

Role: Principal and Project Manager

Project Description: PS&E phase of \$1.65 M, .25-mile realignment project to eliminate offset intersection at Eagles Nest and Sunrise Road. The proposed roadway is new location median divided 4-lane section with 100 feet of ROW. The project included demolition of existing road, new roadway design, drainage analysis/ design, Edwards Aquifer Contributing Zone Plan and traffic signal design. It required extensive coordination with developer of adjacent tracts.

Activities Performed: Principal; PM, developer coordination; illumination design; general sheets including typical sections

Project Relevance: New location; City of Round Rock in Williamson County

Travis County Gilbert Road Extension Travis County, Texas

Role: Roadway Task leader and QA/QC

Project Description: Plans for 1-mile stretch of Gilbert Road to extend existing Gilbert Road from FM 969 to the Austin's Colony subdivision. The project is a new location roadway that included a route study, schematic, PS&E, and construction phase services. The design includes a roadway comprising two 12-foot lanes, 4-foot shoulders, curb and gutter, and 5-foot ADA-compliant sidewalks, as well as four water quality ponds, a signal warrant, and signal design. The project has a large public involvement component as the Austin's Colony has been experiencing heavy traffic congestion.

Activities Performed: Roadway & ADA design; QA/QC remaining disciplines of project

Project Relevance: New location extension

RELEVANT PROJECT EXPERIENCE

City of Georgetown Southwest Bypass and Wolf Ranch Parkway Extension PS&E Georgetown, Texas

Role: Project Engineer

Project Description: The Southwest Bypass and Wolf Ranch Parkway Extension project will feature the construction of 2.27 miles of entirely new right-of-way for the City of Georgetown. The brand new 2-lane roadway will connect SH 29 with Leander Road. The scope of work will include two bridge structures, drainage structures, and ADA-compliant sidewalks and shared-use path.

Activities Performed: Developed the plans, specifications, and estimates for the new location interim 2-lane configuration of the ultimate 6-lane divided highway from RM 2243/Leander Road to SH 29 west of IH-35. Led geometric design and corridor model development.

Project Relevance: Located within Williamson County; new location extension: ROW determination

Williamson County Southwest Bypass Schematic Georgetown, Texas

Role: Project Engineer

Project Description: Schematic for new roadway location from IH-35 to RM 2243/Leander Road.

Activities Performed: Assessed horizontal geometry and super-elevation transitions of the mainlanes and direct connectors in the ultimate IH-35/SWB interchange design; developed horizontal and vertical alignment for the ultimate one-way frontage road/interim two-way connection to IH-35; developed driveway permit exhibits.

Project Relevance: Located within Williamson County; new location extension; driveways

CTRMA 183 North Mobility Environmental Schematic Williamson and Travis Counties, Texas

Role: Lead Roadway Engineer

Project Description: Schematic for the addition of express lanes along US 183 between SH 45 North and MoPac.

Activities Performed: Led the roadway design for the 3.5-mile segment (SH 45 to McNeil Drive/Spicewood Springs Road) within Williamson County. Developed of the schematic design in this segment in compliance with 4R freeway design criteria and assisted with developing lane width and shoulder width design exceptions. Created preliminary roadway and bridge widening typical sections, designed the horizontal and vertical geometry for the proposed direct connectors and ramps, and designed cross-sections for the proposed widening along US 183 mainlanes. She developed geometric design concepts for the SH 45/RM 620 direct connectors to help assist in traffic simulation models for tolling consideration and construction cost analysis. Other considerations for these direct connectors included design speed, horizontal/vertical design controls, superelevation, sight distance, weaving distance and ramp spacing, and deceleration lane. She prepared the preliminary cost estimate.

Project Relevance: Located within Williamson County; schematic optimization; intersection improvements



Education

» Bachelor of Science, Civil Engineering, University of Texas at Austin, 2007

License and Certifications

- » Professional Engineer, Texas, #110256
- » TxDOT Precertification Sequence #20113
- » TxDOT Precertification Categories: 3.1.1, 3.2.1, 3.3.1, 4.2.1, 4.3.1, 8.1.1

Training

- » Local Government Project Procedures Qualification #51618, TxLTAP

Ms. Sandoval is a transportation engineer with 12 years of experience on several urban and rural roadway/highway projects. As a roadway task lead, she specializes in roadway design using MicroStation and Geopak Road software, storm sewer design using Geopak Drainage software, signage and pavement marking design, erosion control design, traffic control design, cross-section design, utility coordination, and schematic and plan, specification, and estimate (PS&E) production. She also has experience in project management and public involvement.

Travis County, Arterial “A” Alternatives Analysis, Context-Sensitive Solution, Schematic, and PS&E

Travis County, Texas

Role: Lead Roadway Engineer

Project Description: Alternatives Analysis, Context-Sensitive Solution, Schematic, and PS&E for a new 3.5-mile, 4-lane divided major arterial from FM 734 (Parmer Lane) to US 290 East

Activities Performed: Oversaw complete production and review of roadway typical and geometrics, bridge typical and layouts, bridge hydraulic analyses, floodplain data evaluation, environmental documentation, right-of-way mapping and survey, utility coordination, and public involvement. Designed and analyzed six conceptual alternatives, developed schematics for the preferred alternative, developed roadway, retaining wall, and storm sewer plans, developed cross-sections.

Project Relevance: New location; 4-lane median-divided arterial; alternative analysis and schematic; public involvement

TxDOT MoPac Improvement Project Austin, Texas

Role: Project Engineer

Project Description: Environmental assessment (EA) and final schematic for added mainlane capacity on 12 miles of Loop 1 (MoPac), between FM 734 (Parmer Lane) and Lady Bird Lake, an urban freeway through Austin. The goal was to provide safer, more reliable operation of the mainlanes within the restrictive ROW footprints. The project consisted of extensive public involvement with neighborhood groups and the public.

Activities Performed: Designed horizontal and vertical alignments and superelevations for a collector-distributor ramp, direct connectors at US 183, and cross-streets along the project. Developed plan and profile exhibits for design exceptions, prepared cost estimates for pavement and structure replacement, and designed cross-sections from custom criteria. Participated in public involvement meetings, ranging from aesthetic advisory meetings, noise workshops, and neighborhood meetings.

Project Relevance: Schematic; public involvement; cross-section design

TxDOT Austin District RM 2769 (Anderson Mill Road) Austin, Texas

Role: Lead Roadway Engineer

Project Description: PS&E development for the reconstruction and widening of a 1-mile section of RM 2769 from a 2-lane roadway to a 4-lane, median-divided urban arterial. The project included minimal ROW and drainage easement acquisition with large amounts of drainage runoff. Services included schematic, public meeting, public hearing, and final PS&E for the design including storm sewer system; culvert analyses and design; traffic signals; signing and striping plans, traffic control plans, utility layouts, and mapping; and ADA-compliant sidewalks.

Activities Performed: Designed ADA-compliant sidewalks; designed horizontal/vertical alignments for roadway and sidewalks; developed intersection grading; designed residential and commercial driveways along the length of the project.

Project Relevance: New 4-lane median-divided arterial; signing and striping; driveways; traffic control design

Project Relevance: Signing and striping; intersection improvements

Central Texas Highway Constructors SH 130 Segment 5 and 6 Austin, Texas

Role: Project Engineer

Project Description: PS&E for the 26-mile extension of SH 130 from Mustang Ridge (SH45 SE interchange) to the San Marcos River. The project includes 14 grade-separated interchanges with turnaround and two multilevel interchanges at SH 45 and US 183. The scope of includes geometrics for mainlanes, frontage roads, ramps, and cross-streets; FEMA studies; storm sewer and culvert design; bridge optimization, bridge layouts and details; retaining wall layouts, signing and striping plans, SW3P; traffic signal design; traffic control plans; illumination plans, utility layouts, and mass haul diagrams for earthwork optimization.

Activities Performed: Performed quality control checks and independent calculation checks on several bridges using the TxDOT Bridge Geometry System.

Project Relevance: Located in Central Texas; rural conditions; new location

Texas Department of Transportation - Laredo District, SL 20 Overpass Laredo, Texas

Role: Roadway design lead

Project Description: PS&E for the improvements of SL20 between the bridge overpasses at Kansas City Southern Railroad and US59. The 2-mile project improvements consist of construction of an overpass at Spur 400 (Clark Blvd) to carry the SL20 mainlanes over Spur 400. Evaluated roadway geometrics; designed horizontal/vertical alignments for mainlanes, frontage roads, ramps, cross streets, and turnarounds; designed superelevation transitions; designed retaining wall plan; created roadway typical sections; prepared cost estimates.

Activities Performed: Oversaw temporary traffic control design

Project Relevance: Roadway improvements; signing and striping

TxDOT Austin District, Loop 82 UPRR Overpass Project San Marcos, Texas

Role: Project Engineer

Project Description: Loop 82/Aquarena Springs Drive is a highly traveled and congested arterial with traffic volumes exceeding 30,000 vehicles per day, along with pedestrian foot traffic that is delayed by over 20 trains per day utilizing the Union Pacific Railroad (UPRR). The Loop 82 UPRR Overpass project was a necessary project for the City of San Marcos and TxDOT to improve safety, improve access for emergency responders and citizens, grade separate vehicular traffic from rail traffic, address mobility issues, alleviate traffic congestion, bicycle and pedestrian access, and to install improved water quality measures. The project study includes archeological resources, historic structures, and endangered species, water quality, noise and air quality, pedestrians, traffic and economics.

Development of the schematic and environmental document and plans and plans, specifications, and estimates (PS&E) for the railroad grade separation project, in coordination with the City of San Marcos and TxDOT. The project included the reconstruction of the 5-lane roadway with an at-grade crossing of the Union Pacific Railroad (UPRR) as railroad grade-separation. Local access/frontage roads and an at-grade crossing were added to maintain connectivity for the nearby intersection with Post Road and access to adjacent properties, including the Texas State Stadium.

Activities Performed: Developed roadway and TCP design, retaining walls, signing and pavement, and engineer's estimate

Project Relevance: Work in growing community; stakeholder coordination

RELEVANT PROJECT EXPERIENCE

Road Bond and Pass Through Program GEC

Williamson County, Texas

Role: Lead QA/QC Reviewer for drainage and water quality plans for multiple projects throughout Williamson County

Project Description: This program managed multiple roadway improvement projects throughout the county, including added capacity and new construction projects.

Activities Performed: On the GEC team, Amy reviewed Water Pollution Abatement Plan (WPAP) plans, Contributing Zone Plans, to ensure compliance with TCEQ requirements (RG-338). She also was drainage discipline lead reviewer for roadway projects plans and ensured compliance with Williamson County Drainage Design Criteria.

Project Relevance: Williamson County; Contributing Zone Plan, TCEQ Coordination

CR 132/IH 35 Interchange Design Services Buda, Texas

Role: Staff Engineer II

Project Description: Engineering services for this project included schematic roadway and bridge design and detailed PS&E for the construction of a new overpass, grade separation, and other improvements to the CR 132 interchange at IH 35. The interchange included 2,000 lft of urban arterial, 6,000 lft of frontage road, a 22,000 sft bridge, 40,000 sft of retaining walls, and four ramps. The design also incorporated SUE, stormwater drainage, striping, signalization and traffic planning/analysis, limited surveying, and geotechnical and environmental services.

Activities Performed: Amy's responsibilities included utility coordination, SUE, and performing hydrologic and hydraulic analyses. She designed a bridge class culverts, to meet utility accommodation rules (UAR) that crossed an existing 4" gas line, to remain in place. She coordinated with the SUE team to collect test holes to confirm the depth and verify no conflict with the proposed culvert. Due to the proximity of the gas pipeline, she added notes to the contractor to hand excavate at the location of the pipeline and the culvert to be cast-in-place only. Coordinated with a developer designing water and wastewater within the project vicinity to ensure no conflicts with proposed storm sewer.

Project Relevance: SUE Level A test hole coordination to avoid 4" gas line to remain in place; utility coordination with adjacent project

TxDOT Austin District I-35 Slaughter Creek Overpass Austin, Texas

Role: Lead Utility Coordinator

Project Description: This project included the replacement of an existing 2-lane over bridge over IH 35 with a 3-lane bridge and adding a new SB-NB turnaround bridge.

Activities Performed: Coordinated directly with various discipline lead engineers to avoid existing utilities conflicts where possible; coordinated with SUE engineers to determine proposed test hole locations; prepared three utility agreements for execution by the utility owner and the State

Project Relevance: Coordination with four utility owners



Education

» Bachelor of Science, Civil Engineering, Florida Institute of Technology, 2007

License and Certifications

» Professional Engineer, Texas, #123129

» TxDOT Precertification Sequence #25868

» TxDOT Precertification Categories: 2.5.1, 10.1.1, 10.2.1, 10.3.1

Ms. Bennett is a civil engineer with 11 years of experience in roadway, drainage, utility, and bridge engineering design for urban and rural highways. Her expertise includes utility coordination, transportation drainage analysis and design, storm sewer design, culvert analysis, water quality, signing and striping, erosion control measures, traffic control, quantities calculations, hydrologic and hydraulic analysis and reporting, and utility construction management.

Evans Road, Alamo Regional Mobility Authority Bexar County, Texas**Role:** Project Engineer**Project Description:** Schematic design for approximately 1.5 miles widening of Evans Road from existing 2-lane configuration to 4 lanes and dual turn lanes. Design included horizontal/vertical roadway geometry, grading, three culvert crossings, cross-sections, utilities, SUE, and WPAP.**Activities Performed:** calculated impervious area for existing and proposed conditions and used TCEQ TSS calculation spreadsheet to determine required load removal; evaluated preliminary locations for proposed vegetative filter strips along the project corridor**Project Relevance:** TCEQ Coordination; project within Edwards Aquifer Recharge zone**Texas Department of Transportation Loop 1604 at SH 151 San Antonio, Texas****Role:** Drainage Engineer**Project Description:** PS&E for construction of Loop 1604 at SH 151 interchange, including 5,440 feet of roadway and bridge length of 188 feet.**Activities Performed:** Drainage analysis and calculations; storm drain, erosion control, and signing and striping plans; overhead sign bridge calculations**Project Relevance:** Drainage design**Qualia Relief Route Del Rio, Texas****Role:** Drainage Engineer**Project Description:** Engineering design services for schematic design, PS&E, environmental regulatory coordination, and contract administration for design and construction of extension of the Qualia Relief Route from Spur 239/Alderete Lane to existing Qualia Drive. The project consists of 1,800 lft of roadway extension and includes proposed ROW development and acquisition, geotechnical services, concrete pavement, WW/W/gas line, drainage design, SUE and utility services, signing, striping, and construction phase services. This project required extensive coordination with the Government Security Administration and TxDOT to tie proposed roadway extension to existing facilities on GSA property.**Activities Performed:** Hydrologic and hydraulic analysis and prepared drainage report; bridge class culvert hydraulic data sheets; existing and proposed channel analysis; erosion control plans**Project Relevance:** Project extension on new location; Two existing channel crossings**Ejido Avenue Extension Laredo, Texas****Role:** Drainage Engineer**Project Description:** Engineering services for the preliminary layout, environmental regulatory coordination, PS&E, and contract administration for the construction of Ejido Avenue from the existing intersection of Cielito Lindo Boulevard at Ejido Avenue north to the intersection of San Nicolas Drive, in the City of Laredo, Webb County, Texas. This project consists of approximately 3,500 lft of roadway extension, and includes the identification of ROW footprint, pavement design, utility design and coordination, drainage design, roadway geometric design, traffic signalization at the intersection with Cielito Lindo Boulevard, signing, striping, and construction phase services.**Activities Performed:** Drainage design; prepared discipline quantities for estimate; prepared drainage plan sheets**Project Relevance:** Project extension on new location**TxDOT Austin District Mobility 35 GEC Program Austin, Texas****Role:** Program Utility Coordinator**Project Description:** As the Mobility 35 program utility coordinator, Amy managed and facilitated the utility coordination for over 20 active (schematic and PS&E) projects for the 65-mile Mobility 35 GEC Program (Williamson, Travis, and Hays County).**Activities Performed:** Coordinated with TxDOT, project managers, and project utility coordinators on the status of utility conflict analysis, design, and agreements; planned and facilitated multiple Mobility 35 program utility coordination meetings; developed scoping language for utility coordination and utility engineering; served as technical utility reviewer for all Mobility 35 projects; worked with project utility coordinators to avoid utility relocation by preparing design exception for underground telecom to be under frontage road pavement; SUE test holes on 18" crude transmission pipeline within easement to verify no conflict with proposed drainage**Project Relevance:** Program utility coordinator for four projects in Williamson County; coordinated with project utility coordinators; large utility facilities; coordination with multiple utility owners

TxDOT Horseshoe Project IH 35 E and IH 30 Improvement Dallas, Texas

Role: Lead Utility Coordinator; Lead Utility QA/QC Reviewer

Project Description: The Horseshoe Project was a \$798 million design-build 8-mile roadway construction project to improve traffic flow through downtown Dallas and the Mixmaster.

Activities Performed: Coordinated with lead discipline engineers, utility owners, and utility designers to develop utility adjustment plans for relocating facilities. Reviewed utility plans to ensure UAR compliance; prepared 30 project utility adjustment agreements (PUAA); ensured that utility designs accommodated the adjacent Riverfront Boulevard county project. Performed test holes (one 22-foot-deep) to determine location of utility at three bridge bents to allow bridge engineer to design bridge straddle bents to avoid an existing 90" wastewater line and relocated 3'x3' concrete encased electric transmission ductbank connecting to a substation. Responsible for ensuring utility design accommodated the adjacent Riverfront Boulevard county project utility and roadway improvements and attended more utility design coordination meetings with both projects under design concurrently.

Project Relevance: Large utility facilities; overhead electric transmission crossing, coordination with multiple utility owners; ROW acquisition

SL 335/IH 27, TxDOT Amarillo District Randall County, Texas

Role: Project Engineer

Project Description: This project included the plans, specifications, and estimates of 1.57 miles of non-freeway to freeway improvements on SL 335, including a 4-lane freeway with frontage road and grade separation at two intersections.

Activities Performed: Responsibilities included designing an open and closed system drainage including curb and gutter, retaining wall drainage system, and open ditch channels; designing storm sewer using Bentley Inroads Storm and Sanitary software; and preparing drainage computations sheets (inlet, pipe, and runoff calculations).

Project Relevance: Open ditch design

TxDOT Houston District Grand Parkway (SH 99) Segment F1, F2, AND G Utility Impact Study Texas

Role: Project Engineer

Project Description: This project included 39 miles of SH 99 on new alignment and over 40 utility companies.

Activities Performed: Developed a utility conflict matrix; evaluated potential utility relocations; prepared cost estimates; contacted utility owners to find out information about the existing facilities within the project area; prepared utility plan layout sheets.

Project Relevance: New alignment; ROW acquisition; utility accommodation

TxDOT Houston District Grand Parkway (SH 99) Segment G Subsurface Utility Engineering Texas

Role: Project Engineer

Project Description: This project included the designation of utilities along the proposed 13 miles of a new toll-way alignment, as well as the completion of 165 test holes. It also included coordinating locating and excavation activities with 37 separate utility companies. It presented several challenges, including right-of-way access, survey control as well as centerline stationing and alignment being developed concurrently with SUE project.

Activities Performed: Developed a utility conflict matrix, evaluating potential utility relocations, preparing cost estimates, contacting utility owners to find out information about the existing facilities within the project area, and preparing utility plan layout sheets.

Project Relevance: New alignment; grade-separated intersections; ROW acquisition and utility accommodation

FM 511 TxDOT Pharr District, Texas

Role: Drainage Engineer

Project Description: Multimodal project connected US 77/83 to the Brownsville Navigation District (Port of Brownsville). Construction plans for 10.4 miles of new freeway, partially on new location (four miles), near Brownsville in South Texas. Roadway included 3.4 miles of 5-lane curb/gutter conversion and seven miles of 2-lane to divided 4-lane highway conversion. Roadway elements included geometric design, roadside design, hydrology and hydraulics, signing, striping, lighting, signalization, and traffic control. Phase I construction cost was \$51MM.

Activities Performed: CADD for signing and striping and storm drain sheets; verified storm drain quantities

Project Relevance: New location roadway

Will Conley Agency Coordination and Public Involvement Support

RELEVANT PROJECT EXPERIENCE

Capital Area Metropolitan Planning Organization (CAMPO) Board Central Texas

Role: Chairman; Board Member

Project Description: Partnerships were forged with government and transportation-related organizations in the state of Texas. Relationships between the Central Texas region, the local TxDOT district, TxDOT administration, and state leadership were strengthened. CAMPO worked with the Central Texas Mobility Authority (CTMA) on multiple, strategic projects – including the North Mopac managed lanes project that added one variably priced toll express lane in both directions. Relationships were formed with other planning organizations, including the Alamo Area Metropolitan Planning Organization (AAMPO). CAMPO worked with the state's transportation leadership to enhance mobility in the region.

Four projects were completed during Will's tenure on the board, and three additional projects commenced.

- » CAMPO's first regional bicycle/pedestrian plan was created
- » A new and more inclusive public involvement plan was adopted
- » The first regional incident management plan was established
- » Kicked off the Capital-Alamo study on transportation options between Austin and San Antonio
- » Began the Mopac study to reach a consensus on potential options for this vital corridor
- » Started regional corridor studies
- » Completed the CAMPO 2040 plan that includes all regionally significant road and transit projects in the Central Texas counties of Bastrop, Burnet, Caldwell, Hays, Williamson, and Travis that are expected to be implemented by 2040.

Activities Performed: Board member for nine years, served as chairman for six of those years

Project Relevance: MPO built lasting relationships with all counties, cities, and transit authorities within Central Texas region.



Education

- » Bachelor of Arts, Political Science, Texas State University, 2000

Public Involvement

Mr. Conley is an accomplished executive with over 15 years of public service in transportation, planning, water resources, school safety, budgeting, and public safety. He also has nearly two decades of experience as a small-business owner, providing him perspective on the impacts that transportation system designs have on economic opportunity.

Will has led public involvement for one of the fastest growing regions of the state. With CAMPO, he led the PI for their first bike and pedestrian plan and PI for various plans, projects, and initiatives. With Hays County, he created the highly regarded PI process for the FM 150 corridor study, led the PI for the transportation plan and various transportation bonds. He has also been involved with PI on every type of transportation project from greenfield construction to interstate improvement projects.

Kemble White, PhD, PG
Karst Investigation Task Lead

RELEVANT PROJECT EXPERIENCE

**Williamson County Regional Habitat Conservation Plan/
Environmental Impact Statement (RHCP/EIS); Williamson County
Conservation Foundation** Williamson County, Texas

Role: Co-author

Project Description: RHCP/EIS in support of an ESA 10(a) permit for incidental take of two endangered songbirds, and two endangered karst invertebrates, the Bone Cave harvestman and Coffin Cave mold beetle. Following approval in 2008, the RHCP has evolved into one of the most successful RHCPs in the country. It has served as the primary mitigation vehicle for many Williamson County Road Bond projects including improvements to IH-35, SH 195, Ronald Reagan Blvd., R.M. 620, O'Connor Road, and many others.

Activities Performed: Implementation services on RHCP preserves including biological monitoring of dozens of caves and several springs on RHCP preserve land

Project Relevance: Williamson County project; karst resources

Cambria Cavern Environmental Services
Williamson County, Texas

Role: Karst Lead

Project Description: Comprehensive karst services to the Williamson County Engineer following the collapse of a major sinkhole in the Round Rock area. The high-profile project was completed successfully despite intense media attention in a high litigation-potential situation.

Activities Performed: Led the effort that included exploration and mapping of the cave, assisting with safety protocols, compliance and mitigation reporting to the TCEQ, collaborating with engineering consultants on the mitigation plan, providing construction inspection services, and responding to information requests from the County public information officer.

Project Relevance: Williamson County project; karst resources

San Gabriel Park Phase 1 Karst Services
City of Georgetown, Texas

Role: Karst Lead

Project Description: Under subcontract, Cambrian provided a series of karst services in support of a major parks improvement project which included ecological restoration of the historic San Gabriel Springs.

Activities Performed: Assisting in developing the project Endangered Species Act compliance strategy; coordinating informally with the USFWS; conducting a USFWS presence/absence survey for Georgetown salamanders; assisting landscape architects in the ecological design; providing inspection services during the construction phase

Project Relevance: Williamson County project



Education

» PhD, Geology, 2006,
University of Mississippi, Oxford

License and Certifications

- » Texas Professional Geoscientist, #3863
- » USFWS 10(a)(b) scientific permit covering Central Texas karst invertebrates and Eurycea salamanders (TE 37416B-0)

Dr. White has specialized in land-use issues unique to the Central Texas growth corridor since the 1990s. Dr. White's specialties include regulatory issues surrounding endangered karst invertebrates and Eurycea salamanders, land use planning in environmentally sensitive areas, public outreach, preserve design, habitat conservation planning, Texas Commission on Environmental Quality (TCEQ) geological assessments and associated reports, and consulting on caves encountered during construction. He has a particular depth of experience with transportation projects.

Over the course of his career Dr. White has made a significant contribution to the state of Texas cave science and to the conservation of karst resources. His karst survey work has contributed to the establishment of thousands of acres of preserve land within the Edwards Aquifer recharge and contributing zones through land acquisitions programs, including the ESA Section 6 program. Since 2008 he has worked with the Williamson County Conservation Foundation and the USFWS to develop karst preserves to recover Williamson County's endangered karst invertebrates so that they may be removed from the Endangered species list.

Southwest Bypass – Wolf Ranch Parkway City of Georgetown, Texas

Role: Karst Lead

Project Description: Cambrian was subcontracted to provide karst services for an approximately 3-mile roadway. Cambrian conducted a TCEQ Geologic Assessment, an endangered karst invertebrate due-diligence study including a full presence/absence survey for a newly discovered cave, and assisted with the project participation in the Williamson County RHCP.

Activities Performed: Conducted the due-diligence studies required under the City of Georgetown Edwards Aquifer water quality ordinance which supports the USFWS special 4(d) rule for activities with the potential to harm the threatened Georgetown Salamander.

Project Relevance: Williamson County project; karst resources

Arin Gray Public Involvement Task Lead

RELEVANT PROJECT EXPERIENCE

Corridor H Study (Sam Bass Road) Williamson County, Texas

Role: Public Involvement Lead

Project Description: CD&P is facilitating the public involvement program for Williamson County to identify improvements to Sam Bass Road.

Activities Performed: Developed project materials including a fact sheet, stakeholder meetings and public meeting notifications, and meeting exhibits; facilitated meetings with property owners and a public meeting for the project; working with local stakeholders to incorporate their input into the study and to build support for the proposed solution

Project Relevance: Williamson County project; transportation project

Southeast Corridor Study Williamson County, Texas

Role: Public Involvement Lead

Project Description: Public involvement for a corridor study to identify a north/south connection in eastern Williamson County. The public involvement program includes intensive outreach and engagement of local communities to gather and incorporate input into the planning process.

Activities Performed: Conducts stakeholder meetings with individuals and community groups; public meetings including facilitated work sessions; develops strategic messaging, and informational materials and exhibits for the public

Project Relevance: Williamson County project; new location roadway

RM 150 Alignment Project Hays County, Texas

Role: Public Involvement Lead

Project Description: Schematic development for the realignment for RM 150 in Hays County. The project is being developed through an Environmental Impact Study and CD&P developed and implements a program to engage the community in compliance with NEPA. The program is engaging hundreds of local stakeholders including property owners, agencies and other governmental partners, and the public.

Activities Performed: Led the first phase of project development in 2015 and continues to build on that program with an independent project website, regular email updates, public meetings, stakeholder outreach and coordination, and development of informative, easy to understand project exhibits and materials

Project Relevance: Public involvement in a growing county similar to Williamson County



Education

» Bachelor of Science, Communication Studies, University of Texas at Austin

License and Certifications

- » TxDOT Precertified 1.8.1 Public Involvement
- » Certified in the Systematic Development of Informed Consent

Ms. Gray develops and implements public involvement plans to inform, gather input, and gain public consent. She identifies key stakeholders, selects appropriate audience based communication, arranges and facilitates public meetings and workshops, develops marketing materials, meeting exhibits and presentations, and provides media relations. She has expertise in planning and organizing website development, strategic planning, and crisis/issues management.

Arin's approach is an expert combination of proven engagement tools and project specific strategy based on client goals and unique stakeholder needs. Her expertise drives engagement programs that capture a community's values and vision to enhance the technical aspects of a project. Her experience in working on infrastructure projects, transportation planning, and engaging the public in community planning is invaluable in building consent and support of projects, keeping projects moving forward, and promoting clients' missions and values.

Austin Avenue Improvements Georgetown, Texas

Role: Public Involvement Lead

Project Description: Implementing a public involvement program to gather public input for improvements along Austin Avenue in Georgetown. This is a controversial project as several businesses and community leaders are concerned of construction impacts while others are concerned with the historical nature and aspects of the bridges. Public outreach activities are being conducted to ensure NEPA requirements are met and to build understanding and support for the ultimate solution.

Activities Performed: Developing project materials and web content; public meetings; individual meetings and community meetings; social media and email updates to reach stakeholders and share updates

Project Relevance: Williamson County project

CR 101 Improvements Williamson County, Texas

Role: Public Involvement Lead

Project Description: Public involvement services for the County during design of the expansion of a segment of CR 101. Stakeholders in the area were concerned with the need and timeline for the project and for the affects ROW needs would have on private property.

Activities Performed: Facilitated one-on-one meetings with affected property owners and a public meeting to share project information; provided project email updates; developed informative project materials

Project Relevance: Williamson County project; roadway segment design

Gordon Anderson, RPLS, PLS, PSM
Survey and Right-of-Way Engineering Task Lead

RELEVANT PROJECT EXPERIENCE

Parcel Platting – Design and Construction Survey, SH 71 and US 290 Travis County, Texas

Role: Project Manager

Project Description: 6 mile design survey and parcel plat surveys

Activities Performed: Surveying included abstracting, parcel plat descriptions, design surveys, tree surveys, aerial and LiDar mapping and GIS deliverables

Project Relevance: Transportation project

Parcel Platting Survey, Future Loop 9

Dallas and Ellis County, Texas

Role: Project Manager

Project Description: Multiple boundary, easement, and parcel plat surveys

Activities Performed: Abstracting, parcel plat, descriptions, and GIS deliverables

Project Relevance: Transportation project

Design and Construction Survey, Hwy 360 Collin County, Texas

Role: Project Manager

Project Description: Multiple roadway segments, creek drainage areas, railroad and bridge scanning sites along I-35 E in Waxahachie, Texas

Activities Performed: Topographic features within existing ROW lines, bridge deck and abutment static scanning, drainage structure surveys, cross sections, and set secondary control

Project Relevance: Transportation project

Design and Construction Survey, FM 438 Denton County, Texas

Role: Project Manager

Project Description: 6-mile roadway design survey

Activities Performed: Locate existing topographic features within existing ROW lines, collect bridge deck and abutments, drainage structures, cross sections, and set primary control monuments and provide and control and data sheet deliverables

Project Relevance: Transportation project

Design and Construction Survey, Future SH 190

Dallas and Kaufman County, Texas

Role: Project Manager

Project Description: 11.5-mile design survey

Activities Performed: LiDAR, obscured area topographic surveys within future ROW and alternative corridors, bridge scanning, primary and aerial mapping control surveys

Project Relevance: Transportation project



Education

» Engineering Technology Studies, 1979, Portland Community College

License and Certifications

» Registered Professional Land Surveyor – Texas, #6617 + 6 additional states

» TxDOT Certifications: 15.1.1, 15.1.2, 15.1.3, 15.1.4, 15.2.1, 15.4.1

Mr. Anderson has over 28 years of experience managing projects and surveying operations with proven success in startup and growth situations. He provides exceptional client support to both external clients as well as internal business groups. He cultivates top performing efficient teams through leadership, management, training, and development initiatives. He has a broad range of technical and management skills. Gordon provides advocacy for innovative geospatial related business initiatives, establishes new business alliances, and provides quality assurance for geospatial consulting delivery. He also leads the implementation of unique new products and services and recommends management and technology solutions that drive business offerings, and define new markets.

Design and Construction Survey, Buckner Boulevard (at Peavy Road) Dallas County, Texas

Role: Project Manager

Project Description: 1-mile roadway design survey

Activities Performed: Locate existing topographic features within existing ROW lines, bridge structure survey and drainage structures

Project Relevance: Transportation project

Design and Construction Survey, FM 1776 Pecos County, Texas

Role: Project Task Lead

Project Description: 6.9-mile roadway control survey

Activities Performed: Locate existing TxDOT control, primary control survey (18 monuments), mobile mapping control survey (42 targets) and static GPS control survey. The project included digital levels, and control and data sheet deliverables

Project Relevance: Transportation project

Design and Construction Survey, Hwy 121 Tarrant County, Texas

Role: Project Task Lead

Project Description: 2.1-mile roadway design survey included digital levels, and control and data sheet deliverables

Activities Performed: Primary control survey (6 monuments), aerial mapping control (16 targets) and bridge surveys

Project Relevance: Transportation project

Tom Allemand
Environmental Documentation Task Lead

RELEVANT PROJECT EXPERIENCE

Williamson County Road Bond Project Work Authorization 22, Hairy Man Road Improvements Williamson County, Texas

Role: Environmental task lead

Project Description: Improvements along approximately 2.1 miles of Hairy Man Road

Activities Performed: Geologic assessment, karst survey and report preparation, threatened and endangered species report preparation, golden-cheeked warbler (*Dendroica chrysoparia*) presence/absence surveys, and Williamson County Regional Habitat Conservation Plan (RHCP) preparation

Project Relevance: Williamson County project; environmental reports

Williamson County Road Bond Project Work Authorization 17, DB Wood at SH 29 Williamson County, Texas

Role: Environmental task lead

Project Description: Widening SH 29 and DB Wood Road to add additional turn lanes at the intersection

Activities Performed: Geologic assessment, karst survey and report preparation, biological assessment report preparation, and Williamson County RHCP preparation

Project Relevance: Williamson County project; environmental reports

Great Oaks Bridge at Brushy Creek Williamson County, Texas

Role: Environmental task lead

Project Description: Operational and capacity improvements at the intersection of the Great Oaks Drive Bridge and Brushy Creek Road/Hairy Man Road and the replacement of the existing Great Oaks bridge structure

Activities Performed: Prepared environmental due diligence reporting and permits

Project Relevance: Williamson County project; environmental reports

Redbud Trail Bridge Replacement Austin, Texas

Role: Environmental task lead

Project Description: Preliminary selection phase of the overall bridge replacement project providing preliminary design options and conceptual evaluations of each option

Activities Performed: Assessments such as bridge structural engineering, architectural, roadway, utilities, and environmental due diligence per the City of Austin's Environmental Resource Inventory (ERI) documentation

Project Relevance: Environmental reports

Barton Springs Road Bridge Replacement Austin, Texas

Role: Environmental task lead

Project Description: Preliminary selection phase of the overall bridge replacement project providing preliminary design options and conceptual evaluations of each option

Activities Performed: Assessments such as bridge structural engineering, architectural, roadway, utilities, and environmental due diligence per the City of Austin's ERI documentation

Project Relevance: Environmental reports



Education

» Master of Science, Aquatic Biology, 2001, Texas State University

License and Certifications

» TxDOT Precertification Sequence #18331

» TxDOT Precertification Categories: 1.4.1, 2.1.1, 2.3.1, 2.4.1, 2.6.1, 2.6.2, 2.12.1, 2.13.1, 2.14.1

» WTI Wetland Delineator

Mr. Allemand has over 20 years of direct experience in the fields of biology, environmental science, planning, and project management. His years of expertise includes up-to-date FHWA and TxDOT NEPA compliance and due diligence documentation for road and highway projects, including environmental permitting; local, state, and federal state agency coordination; and public involvement. Tom currently serves as the Texas transportation leader for the SWCA Austin Office and is responsible for supervising and coordinating the efforts of staff; overseeing natural and cultural resource investigations; business development including proposal preparation and budget development; coordination of client activities and project development; and providing guidance on the environmental process with direct expertise in NEPA documentation. Tom has evaluated and is currently evaluating the environmental impact of numerous linear infrastructure projects, including toll and non-toll roadway facilities, passenger and freight rail, transit, as well as other infrastructure work. He has also managed, performed and obtained numerous environmental clearances for environmental impact statements (EISs), environmental assessments (EAs), categorical exclusions (CEs), EIS/EA reevaluations. Tom currently serves as a NEPA Subject Matter Expert assisting Williamson County, Texas, with their Road Bond Program.