



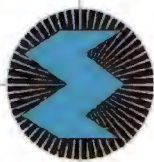
REQUEST FOR PROPOSAL

RFP # 20-4090-02

FOR

CONSULTING ENGINEERING SERVICES
PLANNING AND DESIGN ENGINEERING SERVICES

Prepared By:



Willis Environmental Engineering, Inc.

Consulting Engineers

310 MAIN ST. MARBLE FALLS, TX 78654

830-693-3566

For:

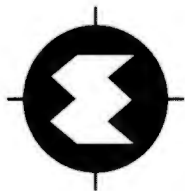
BURNET COUNTY AUDITOR

133 E JACKSON ST.

Burnet, TX 78611

512-715-5295





Willis Environmental Engineering, Inc.

310 main • marble falls, texas • 78654

(830) 693-3566 • fax (830) 693-5362

email: tplumlee@willis-engineering.com

Reg. No. F-2782

March 16, 2017

Honorable James Oakley, County Judge
Burnet County
220 South Pierce Street
Burnet, Texas 78611

RE: RFQ for Engineering Services for "17-610-02" Burnet County- Roadway and Bridge Projects

Honorable Judge Oakley,

Willis Environmental Engineering, Incorporated (WEE) is delighted to be able to submit our Statement of Qualifications for your review. We understand the County is seeking a firm to provide professional services to assist them with the Roadway and Bridge Project under the Bond Appropriations.

We are confident that our Team can provide the high quality service to meet the County's needs while adhering to the project schedule and budget. We are the Team of choice for the following reasons:

Local Understanding - WEE has more than 52 years of service and experience in planning, design and construction management of the streets, roadways, and bridges within the County, Municipalities and surrounding Counties. We have preformed these services for Marble Falls, as well as Horseshoe Bay, Kingsland, Granite Shoals, and other outlying areas and subdivisions. Our firm has its roots in Burnet County and we understand the County needs, concerns and expectations of the County staff, and the desire to make our area a better place for all of us live.

Technical Expertise – WEE has worked with the County, and surrounding communities, to implement various Streets, Drainage and Flood Modeling projects for over 52 years. In 1975, we assisted the Development of Horseshoe Community; by developing their streets and drainage infrastructure as well the Meadowlakes Community and other Developments which have now become Cities.

WEE recently assisted the City of Horseshoe Bay by Modeling, Mapping and redefining the FEMA Flood Plain Mapping which saved the residence hundreds of thousands of dollars of flood insurance. WEE and our associate, Willis Sherman and Associates, have developed hundreds of subdivisions within Burnet and Llano Counties, and have assisted thousands of residents with their surveying needs.

Teaming Experience – WEE has assisted many small communities throughout the State of Texas with their street and drainage projects including Anton, Shallowater, Lipan, Stephenville, Horseshoe Bay, as well as Llano County M.U.D. WEE just completed a five year program with the City of Horseshoe Bay to rehabilitate their streets. This encompassed a Plan which developed a Matrix to provide the best possible amount of streets to the most populated areas.

The City had well over 95 miles of streets. After the matrix, we were able to provide new streets to 98% of the population with only 43 miles of street rehabilitated. The streets were designed to have ribbon curbs, new drainage structures and Hot Mix Asphalt driving surfaces. The total cost of the project was around \$28,000,000.

Accurate Cost Estimating - We have experience in developing a Roadway and Drainage Capital Improvements Plan and will draw on knowledge gained from designing and managing local streets, rights-of-way, low water crossing, and bridges.

Our construction management and cost estimating experience will provide the County the resources for determining project construction; detailed and realistic feasible cost estimates for their needed infrastructure improvements.

I will be the Principal-in-Charge for the Team and will facilitate the responsibilities of the Team for the administration and coordination with County Commissioners and staff. As always, we will provide hands-on, local service to the County. We are only as far away as a phone call and can meet with you on extremely short notice to answer questions, work through an issue with you, and address any concerns you may have. In addition to that local touch, we can offer you specialized services of a firm which routinely provides these services throughout Texas.

I feel confident, after your review of our Team's qualifications, you will agree that we will bring to the County the best Team possible for this job. The County will benefit from the local knowledge and understanding of the community from the staff of WEE.

If you have any concerns or questions regarding our submittal package, or would like any additional information, please do not hesitate to contact me. We look forward to working with you on this important project.

Sincerely,

WILLIS ENVIRONMENTAL ENGINEERING, INC.

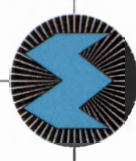


William A. Plumlee, P.E.

Project Director

(830) 693-3566

tplumlee@willis-engineering.com



Executive Summary and Index

Willis Environmental Engineering, Inc. (WEE) was established in 1965 and incorporated in 1971 by the company's founder, Mr. Charles Lynn Willis. In 1997, the firm was acquired by Mr. William Anthony (Tony) Plumlee. Mr. Plumlee was an employee of the firm for more than 23 years prior to becoming its' President and present owner.

WEE has always called the Texas Hill Country its home. We are a full-service engineering firm providing engineering services to municipal/governmental entities, private developments, and individuals. To optimize the value provided to clients through our professional staff. We are skilled in current technologies, dedicated to quality improvements and proven exceptional customer services.

WEE understands that Burnet County is seeking a firm to provide **CONSULTING ENGINEERING SERVICES AND PLANNING AND DESIGN ENGINEERING SERVICES**. We are confident that the Team we have assembled will provide the high quality service to meet the County's needs while adhering to the project schedule and budget.

Section 1: RFP Submittal and Closing Date

It is hereby understood that two copies of **REQUEST FOR PROPOSAL RFP #20-4090-02 FOR CONSULTING ENGINEERING SERVICES PLANNING AND DESIGN ENGINEERING SERVICES** must be received by 2:00 pm local time Monday, February 10, 2020.

Section 2, 2.1 and 2.2: Inquiries

Willis Environmental Engineering, Inc. has no questions regarding **REQUEST FOR PROPOSAL RFP #20-4090-02 FOR CONSULTING ENGINEERING SERVICES PLANNING AND DESIGN ENGINEERING SERVICES**.

SECTION 3: General Statement of Work and Delivery Schedule

Section 3.1 General Work Statement

Section 3.2 Consultant's Responsibilities

Section 3.3 Proposed Contract

It is hereby understood that Burnet County intends to select one qualified consultant based upon its review of the RFPs and, if the County determines necessary, the discussions (interviews), and award one contract for an indefinite delivery period as described elsewhere herein.



SECTION 4: RFP Requirements

Section 4.0 No Fee Schedule

Willis Environmental Engineering, Inc., regarding **REQUEST FOR PROPOSAL RFP #20-4090-02 FOR CONSULTING ENGINEERING SERVICES PLANNING AND DESIGN ENGINEERING SERVICES** understands that:

The County shall utilize a two-step consultant selection process:

1. Selecting the most qualified firm, and
2. Entering into fee negotiations

Costs will not be evaluated as part of the selection process. Costs will be negotiated after a Proposer is selected. A Preliminary Fee Schedule for any Proposer selected for contract negotiations, must be submitted within five (5) working days of the Proposer's notification of selection unless an extension is granted by the County.

Willis Environmental Engineering, Inc. has, therefore not included a Fee Schedule

SECTION 5: Proposal Evaluation and Consultant Selections

Section 5.1 Evaluation Process

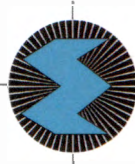
Section 5.2 Evaluation Criteria

Willis Environmental Engineering, Inc. has read and understands the entirety of **Section 5 of REQUEST FOR PROPOSAL RFP #20-4090-02 FOR CONSULTING ENGINEERING SERVICES PLANNING AND DESIGN ENGINEERING SERVICES.**

SECTION 6: General Information

Sub-Sections 6.1-6.8

Willis Environmental Engineering, Inc. has read and understands the entirety of **Section 6 of REQUEST FOR PROPOSAL RFP #20-4090-02 FOR CONSULTING ENGINEERING SERVICES PLANNING AND DESIGN ENGINEERING SERVICES.**



Executive Summary Conclusion

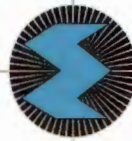
WEE has more than 55 years of service and experience in streets, drainage, water hydrology modeling, bridges, storm water control and water quality enhancement, along with construction management of the streets and drainage in and throughout the region. As you can see from our previous project experience, we know how to provide quality services for Burnet County projects.

Our project Team will work closely with Burnet County to review existing data of the target areas to replace the aged and deteriorated infrastructure. Review proper Rights-of-Way for standards, review testing of infrastructure to determine quality of existing facilities and address safety issues. WEE shall ensure that the amount of County funds expended for all eligible project-related services does not exceed the amount specified in the Budget through proper planning.

WEE has assembled a Team of talented and experienced professionals who can work together efficiently to provide outstanding services to Burnet County. Our Team has well over 100 years of combined experience in the Engineering and Surveying fields

WEE understands the importance of maintaining quality standards throughout the project so as to reach a quality result. WEE is committed to providing Burnet County with an excellent project, a project that will set a strong course for the future infrastructure decision-making by the County.

Our Team is proud of our previous work and has many clients who are happy to share their experience with you. Please contact our references to hear what they have to say. If you would like more references, we would be happy to supply them. We strive for client satisfaction!



Section 3.1 General Work Statement

It is hereby understood that the objective of this work is to assist Burnet County with the design and construction of a variety of projects as the need arises. Projects may include, but are not limited to, the following:

1. Right-of-Way and Topographic Surveying Services



2. Design Schematics



3. Geotechnical Services



4. Environmental Services



5. Utility Location Services



6. Roadway Projects



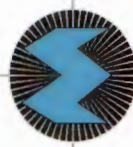
7. Bridge Projects



8. General Public Works Projects such as Drainage Improvements and Planning Projects

SECTION 3.2 CONSULTANT'S RESPONSIBILITIES

SERVICES TO BE PROVIDED		Planning	Preliminary Engineering	Design Engineering	Construction Engineering	RESPONSIBLE CONSULTANT		
						Willis-Environmental Engineering, Inc.	Willis-Sherman Associates, Inc.	Others (Sub-Contractors)
1	Assist the County with Development and Planning Projects	•	•			✓	✓	
2	Prepare Preliminary Project Costs	•	•			✓		
3	Assist the County in the Financial Planning for Projects	•	•			✓		
4	Meet with the County and representatives of Local, State and Federal Agencies as necessary	•	•	•	•	✓	✓	
5	Prepare Conceptual Schematics and Designs and review the Designs with the County and applicable Agencies and prepare Preliminary Cost Estimates based on the Conceptual Design	•	•			✓		
6	Proceed with Final Design after the County has approved the Conceptual Schematic Design	•	•	•		✓		
7	Complete the necessary Mapping and Detailed Design of the Projects, prepare Detailed Drawings, Specifications and Contract documents and make Approximate Estimates of the Anticipated Final Costs based on the Final Designs	•	•	•		✓	✓	
8	Perform Topographic and Boundary Surveys and assist in Negotiations for Land Rights when required and prepare Right-of-Way Maps as directed by the County	•	•	•		✓	✓	
9	Attend Public Meetings and / or Conferences with the County and Representatives of other Agencies and Interested Parties	•	•	•	•	✓	✓	
10	Provide Detailed Drawings, Specifications, Construction Plans and other Contract Documents prepared by a Registered Professional Engineer to the County and any other from which approval must be obtained prior to advertisement for Bids	•	•	•		✓		
11	Attend Bid Openings, Tabulate Bid Proposals, analyze the Bids, check the Bid Forms and Bonds, check Quantities in the bids and assist the County in negotiating and awarding the Contracts				•	✓		
12	Meet with the County and Contractors in Pre-Construction Conferences				•	✓	✓	
13	Keep the County informed concerning progress of the work and attend meetings held by the County, Regulatory Agencies and Contractor(s) as they relate to the Project				•	✓		
14	Review Shop and Working Drawings furnished by the Contractor				•	✓		
15	Provide general review and assist County Inspectors on an as-needed basis for inspection of the Contractor's work as construction progresses				•	✓		
16	Provide Construction Staking as required				•	✓	✓	
17	Provide Material Testing Services as required				•	✓		✓
18	Review the Contractor's requests for Progress Payments and advise the County as to the extent of the work accomplished as of the date of the request				•	✓		
19	Prepare Change Orders				•	✓		
20	Provide County with Records Drawings and As-Constructed Plans.				•	✓	✓	
21	Make final inspections of Projects and report the results to the County and any other applicable agency				•	✓		
22	Assist with the preparation of Environmental Review Records or Impact Statements. Provide Environmental Services for compliance with Federal and State Law		•	•		✓		
23	Assist the County in obtaining Permits, Applications, etc. as required for the work		•	•		✓		
24	Assist the County with Property Surveys, Property Plats, Legal Descriptions and other items necessary for negotiating for Land Rights and Easements	•	•	•		✓	✓	
25	Assist with the preparation for and appearances before Courts and Boards on matters of Litigation related to the Projects	•	•			✓	✓	
26	Furnish consultations necessary to correct unforeseen Project difficulties after County accepts the work.				•	✓		
27	May provide a Warranty Inspection eleven months after the County accepts the Project and prior to the expiration of the Contractor's 1-Year Warranty.				•	✓		
28	Ensure Compliance with applicable State and Federal requirements and regulations specific to each project in accordance with Funding Sources	•	•	•		✓		
29	Ensure that the Person-In-Charge of the Project is a Texas Professional Land Surveyor and/or Texas Professional Civil Engineer and include the Name and Registration Number of each	•	•	•	•	✓	✓	
30	Provide and use all Safety Equipment including, but not limited to, hard hats, safety vests and clothing required by applicable State and Federal Regulations				•	✓	✓	
31	Provide Utility Location Services	•	•	•		✓	✓	✓
32	Assist County Precinct Commissioners with Texas Transportation Code Annual Road Reports and Classifications	•	•	•	•	✓		



Section 4.1 References

WEE earns its living based upon a reputation of *high level service* combined with *technical excellence*. We are pleased to offer you the following references from recent clients.

Mr. Tim Foran
Public Works Director
City of Horseshoe Bay
P.O. Box 7765
Horseshoe Bay, Texas 78657
512-656-1844
timfconstruct@gmail.com

Ms. Angela Thomas
General Manager
Llano County M.U.D. No. 1
2900 Blue Lake Drive
Horseshoe Bay, Texas 78657
830-598-5460
Lcmudone@zeecon.com

Mr. Paul Brady
Board Member
The Phoenix Center
P.O. Box 732
Marble Falls, Texas 78654
830-637-7848
pbrady@austin.rr.com

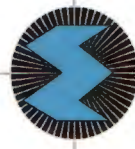
Mr. Ron Mitchell
President
Horseshoe Bay Resort, Ltd.
P.O. Box 7766
Horseshoe Bay, Texas 78657
830-598-2511
rmitchell@hsbresort.com

Mr. Dean Blaine
Former General Manager
Escondido Golf & Lake Club
9000 HWY 2147 W, Suite 202
Horseshoe Bay, Texas 78657
512-563-0309
dblaine@voltaire.us.com

Mr. Eric Belaj, P.E.
Public Works Director
City of Lago Vista
P.O. Box 4727
Lago Vista, Texas 78645
830-798-6265
ebelaj@marblefallstx.gov

Should Burnet County require additional references, we will be happy to provide same upon request.





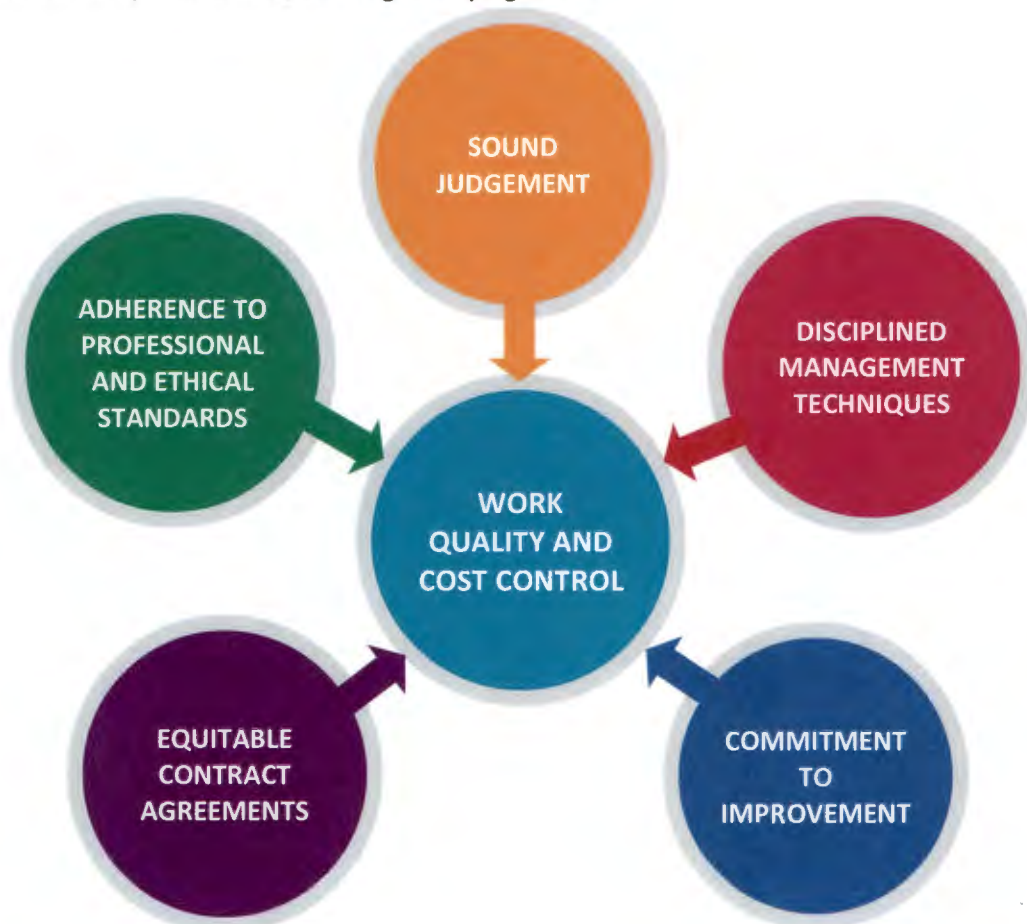
Section 4.1 Work Quality and Cost Control

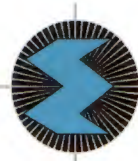
There are Five Primary Elements of **Internal Procedures and Policies** for a Comprehensive **Work Quality and Cost Control Program**:

1. Sound Judgment
2. Disciplined Management Techniques
3. Adherence to Professional, Ethical Standards of Practice applied to Public Safety, Health and Welfare
4. Equitable Contract Agreements
5. A Commitment to Improvement

Our Team will employ a proven Work Quality and Cost Control Program where the senior staff of Willis Environmental Engineering (WEE) will conduct Quality Reviews at determined project milestones. The goal of each review is to check for sound technical principles and accuracy. Most reviews are inter-disciplinary and those with construction adjuncts are also reviewed for constructability. Good quality assurance procedures enable the Principal in Charge and Project Manager to determine, specify and structure tasks, which will accomplish the desired objective – quality service which meets or exceeds the County's expectations.

The clear assignment of responsibilities is instrumental to the success of the Quality Assurance Program. All appropriate parties are included in the decision making process during development of the analysis, design and construction phases to facilitate coordination among the Team Members, County Representatives, outside Consultants, Contractors, and Regulatory Agencies.





Section 4.1

Capability to Perform the Work for the Duration of the Contract

Since 1965, Willis Environmental Engineering, Inc. has been a full-service Engineering Firm providing Professional Engineering Services to Federal, State, County and Municipal entities as well as the Private Sector and subsequently our company has been serving the good people living in the Texas Hill Country and Highland Lakes Areas for over 55-years.

Willis Environmental Engineering's (WEE)'s time-proven dedication and **Capability to Perform the Work for the Duration of the Contract** can briefly be outlined as follows:

1. **WEE have experience working with Federal, State, County, Municipal and other local Governmental and / or Regulatory agencies providing services similar in size and scope to those set-out by the RFP.**

The experience we have presented in this document, as well as extensive additional experience not detailed in this submittal, demonstrates our experience providing these services for Governmental Agencies of all sizes. If the County would like to receive additional information, our Team would be pleased to provide it.

2. **WEE is solvent, in good financial standing and current in payment of all taxes and fees.**

WEE is in good financial standing and current in our payment of all taxes and fees. We have no outstanding debt and **meet all insurance requirements for this project**. We will be happy to provide any documentation of our financial status upon request.

3. **WEE employs Personnel, Subcontractors and Operators that are licensed, fully competent, trained, and duly certified to perform the work outlined in Burnet County RFP.**

All personnel presented in this document, including those staff members not specifically mentioned by name are fully competent, trained and certified to perform the work described by the County's RFP herein addressed.





Section 4.2 Project Team

We have selected the personnel below to staff the Burnet County **CONSULTING ENGINEERING SERVICES PLANNING AND DESIGN ENGINEERING SERVICES** Program. All persons presented in this section will be actively involved in the project, although we may draw in additional personnel, as needed, from our firm to accentuate our Team to keep the project on schedule and budget.



Tony Plumlee, P.E.

Principal-in-Charge

Tony Plumlee is President of Willis Environmental Engineering and has more than 43 years of experience in many phases of project planning and management, coordination with municipalities for comprehensive studies and planning, and budget control, design and construction management. Mr. Plumlee is experienced in land use analysis, environmental assessment studies, materials control, construction inspection, and progress administration. His experience also includes site development related activities, community master planning, design of water and wastewater systems, and street design.

Mr. Plumlee from WEE will provide Quality Assurance Reviews. He will look at the project from a wider perspective and address such topics as: project schedule, availability of adequate resources and staffing, clearly defined deliverables, client reviews, unique or critical aspects of the project, regulatory needs, alternate design concepts, and the overall quality of the work and services provided to the County.



Experience

- 43years

Education

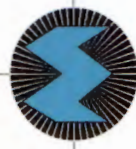
- B.S., Industrial Management, Tarleton State University

Registration

- Professional Engineer, Texas No. 89777

Time Committed

- 35 percent



David A. Galvan, P.E.

Project Manager

Mr. Galvan is Senior Engineer of Willis Environmental Engineering and has more than 40 years of progressively responsible experience in Office and Project Management in South and Central Texas Civil Engineering, specializing in Federal, State, County, City and Utility projects planning and management including comprehensive studies and master planning, budget control and design and construction management. Mr. Galvan is experienced in land use analysis, environmental assessment studies and application, materials control, construction inspection and financial administration. His experience also includes site development related activities such as community master and major thoroughfare planning and streets design, hydrology and hydraulics, design of water, wastewater and recycled / re-use water systems.

REPRESENTATIVE PROJECT EXPERIENCE INCLUDES:

- Agency Project Management experience with the Texas Department of Transportation (TxDOT), Bexar, Cibolo, Kendall, Comal, Travis, Hays, Kerr, Bandera, Guadalupe, Medina, Atascosa, Frio and Blanco Counties Public Works Departments, City of San Antonio Metropolitan Planning Organization, City of Leon Valley City Engineering, TCEQ and LCRA.
- Roadways, Drainage and Utilities Infrastructure Improvements and Replacement Projects include:
 - Wurzbach Parkway
 - Vista Verde South UDAG Project
 - Thousand Oaks—US Hwy 281 to Jones Maltsberger
 - Old Corpus Christi Road Southeast San Antonio Region
 - Harry Wurzbach—Austin Highway to Arvin
 - Loop 1604—IH 10 to Hwy 90
 - Loop 410—Cherry Ridge to Callaghan and Crossroads to Callaghan
 - Pleasanton Road—South Flores to Koepke
 - Zarzamora Street “C” to Laredo Street
 - San Antonio Drainage Project No. 74
 - City of Leon Valley; Huebner Road—Bandera Road to City Limits
 - City of Leon Valley; Evers Road—Huebner Road to City Limits
 - City of San Antonio; Wetmore Road—Thousand Oaks to City Limits



Experience

- 40years

Education

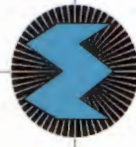
- B.S., Civil Engineering, University of Texas at San Antonio with Post-Graduate studies in Applied Physics

Registration

- Professional Engineer, Texas No. 81950

Time Committed

- 50+ percent



Jace Hewett, E.I.T.

Hydrologic & Hydraulic Analysis / Technical Design

Jace Hewett has 5 years of experience in the civil engineering design of various residential, commercial, and municipal projects throughout the Highland Lakes area. Jace is experienced in land development disciplines, including site planning & layout, site grading, retaining wall design, hydrologic analysis, hydraulic design, street & parking lot design, water & wastewater utility design, erosion control management, and storm water pollution prevention. He specializes in surface water management, utilizing hydrologic and hydraulic modeling programs, HEC-RAS and HEC-HMS, to aid in the design and analysis of drainage channels, culverts, underground storm drain systems, detention basins, water-quality ponds & BMP's. Jace manages the master water-quality protection plan for Summit Rock Communities, a 1,200 acre development located in the City of Horseshoe Bay. He also assisted the City of Horseshoe Bay, participants in the National Flood Insurance Program, with the detailed study of Slickrock Creek and Pecan Creek, in an effort to more accurately delineate floodplain extents within the City.

REPRESENTATIVE PROJECT EXPERIENCE INCLUDES:

- FEMA Floodplain Map Revisions for City of Horseshoe Bay
- HEC-RAS and HEC-HMS modeling
- AutoCAD drafting
- Street Rehabilitation Program, Horseshoe Bay
- Site Development, Drainage, and Water-Quality Protection for various projects

Neil Hornbeck, E.I.T.

Streets and Roadways / Technical Design

Neil Hornbeck has 30 years of experience in the civil engineering design and inspection of various residential, commercial, and municipal projects throughout the Highland Lakes area and is experienced in land development disciplines, specializing in roadway planning and design. Mr. Hornbeck's experience also includes site planning & layout, site grading, hydrologic and hydraulic analysis and design, water & wastewater utility design, erosion control management, and storm water pollution prevention.

REPRESENTATIVE PROJECT EXPERIENCE INCLUDES:

- **River Hills Ranch** – Design of streets for a 1,700-acre, large tract subdivision in northeast Burnet County including 10-miles of modified County road cross-section.
- **Panther Hollow Subdivision** – Design and layout of 22-acre subdivision of single and multi-family lots with 1,000-ft of City of Marble Falls street section.
- **Preliminary Subdivision (Misc.)** – Master Planning of a 267-acre single-family residential subdivision including engineering design of 14,000 LF of Burnet County street-section.



Experience

- 5 years

Education

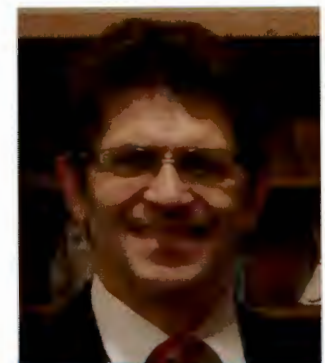
- B.S., Civil Engineering, Texas Tech University

Registration

- E.I.T., Certification No. 46393

Time Committed

- 20 percent



Experience

- 30 years

Education

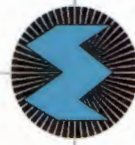
- B.S., Civil Engineering, California Polytech State University

Registration

- E.I.T., Certification No. XE077345

Time Committed

- 40 percent



Donald G. Sherman, R.P.L.S.

Senior Project Surveyor and Sub-Consultant

Donald G. Sherman, R.P.L.S., Owner of Willis-Sherman Associates, Inc. He has over 50 years of experience in land use development, land planning and land surveying in and around the central Texas area. With his background experience in land planning, easement and Rights-of-Way negotiations, feasibility design analysis, and client representation in liaison with local, state and federal regulatory agencies, Mr. Sherman is a valuable asset for the Team.

REPRESENTATIVE PROJECT EXPERIENCE INCLUDES:

- **Meadowlakes Subdivision** – Master Plan of 645 acre design and layout of single and multi-family lots along with an 18 hole golf course.
- **Horseshoe Bay Subdivision** – Design and layout of 2,000 acre subdivision of single and multi-family, commercial lots including an 18 hole golf course.
- **Escondido Subdivision** – Master Plan of 480 acres including street layout and topographic survey of all streets for engineering design.



Experience

- 50+ years

Education

- Undergraduate, San Antonio College, San Antonio, Tx

Registration

- R.P.L.S., License No. 1877

Time Committed

- 80 percent

Larry E. Wilke, P.E.

Sub-Consultant

Mr. Wilke has more than 44 years of progressively responsible experience including Office Management and Project Management in Agricultural and Civil Engineering, specializing in water resources including the planning, design and construction management of sewage treatment, pipelines, pump stations, major streets, storm drains, irrigation systems and sewers in the great Southwestern United States. He has performed computer modeling of water systems, sewers, force mains, and irrigation systems. He has also been responsible for administering the formation of several municipal improvement districts and for the design and construction of roads, drainage, utilities, and related facilities.



Experience

- 44 years

Education

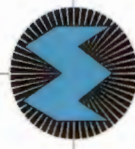
- MS., Civil Engineering, Texas Tech University
- B.S., Agricultural Engineering, Texas Tech University

Registration

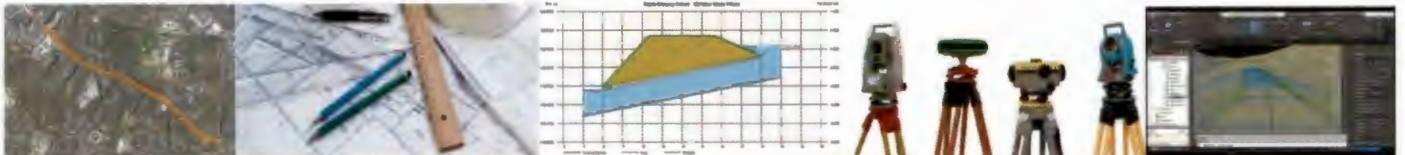
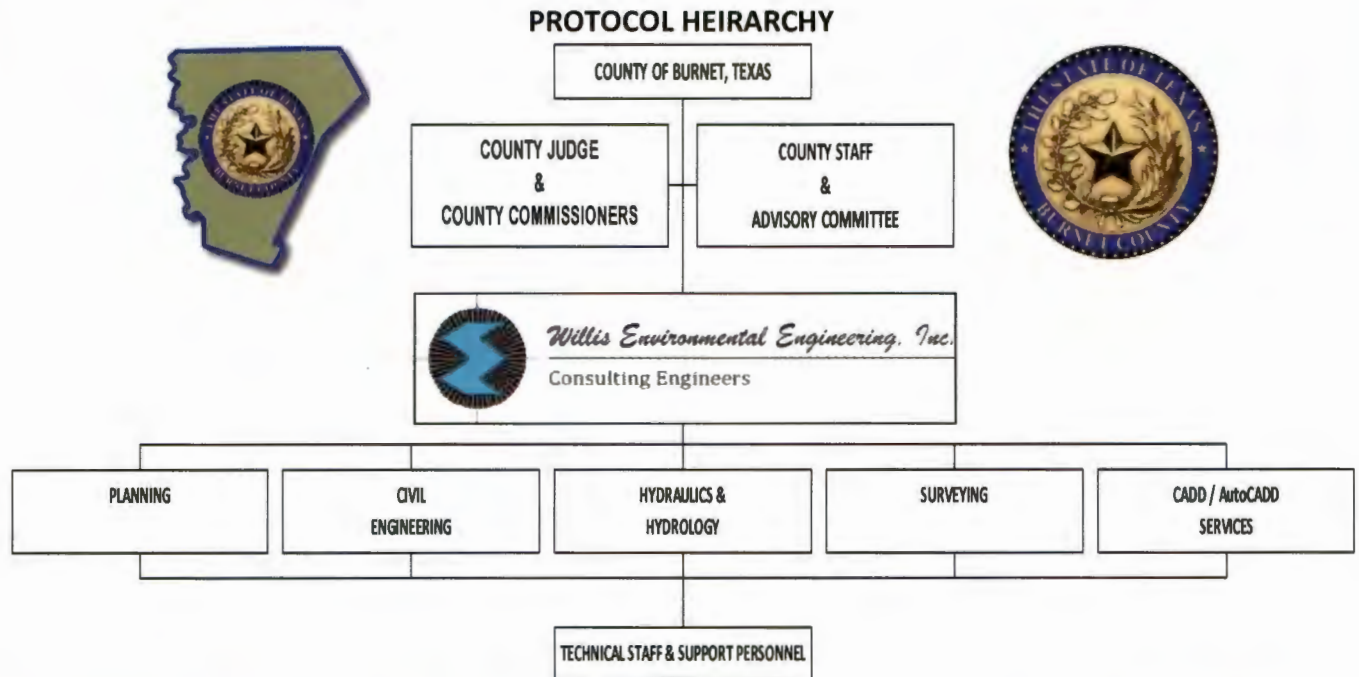
- Professional Engineer, Texas No. 94256

Time Committed

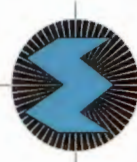
- As Needed



Section 4.3 Method of Approach



SECTION 4.3 CONT



Section 4.3 Method of Approach

Inventory, Analyze and Prioritize

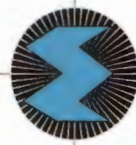
Inventory

The project's first requirement is to obtain and review data on the existing infrastructure systems, including previous reports, GIS information, AutoCAD data, and existing and future land-use mapping for the County. Interviews with County Commissioners, field operations and maintenance staff will be conducted to get a thorough understanding of the existing conditions for life cycle cost and to determine the best approach for the improvements necessary to meet the future growth of the County and Public Health, Safety and Welfare issues.

Analyze and Prioritize

WEE employs the Pavement Surface Evaluation and Rating System or "PASER" scale which uses visual inspection to evaluate pavement surface and sub-surface conditions. This evaluation system can be equally applied to Drainage and Culvert systems. Advantage: Roads and Culverts are assessed quickly which equates to time and cost savings.

RATING	1-4	5-7	8-10
QUALITY	Poor-Failed	Good-Fair	New-Very Good
TREATMENT	Heavy-Full Structural Rehabilitation	Capital Preventative Maintenance	Little or No Maintenance Required
PAVEMENT SYSTEMS			
CULVERT SYSTEMS			
PRIORITY	1	2	3



Section 4.4: Understanding of Requested Services and Local Area

The Willis Environmental Engineering Team combines local presence and strong understanding of project management through our knowledge of the local environment with respect to **commercial material resources available, historical area weather conditions, the unique geology within the County and the availability of local contracting resources.**

Our Team offers a unique and fresh perspective to planning issues currently facing Burnet County. Our goal is to identify solutions that not only meet the long-term growth and system renewal needs, but enables the County to implement the solutions while being good stewards of natural and financial resources. The following sections identify our technical approach to the County's Roadway and Drainage Infrastructure Improvements.

WEE's Team approach to the Infrastructure Improvement Program is based on developing projects that address the needs of the County's short term and long term goals. These goals will be able to provide a sound infrastructure whether it is repaving a roadway, using Full Depth Reclamation of the existing road bed, or establishing new Rights-of-Way for future growth corridors. WEE will develop Hydrological Modeling for Proper sizing and design of the drainage infrastructure which will influence proposed selected projects.

So many times, we have witnessed in the Texas Hill Country, drivers try to cross low water crossing during severe weather and it ends in a tragedy. Through proper design and safety protocol these incidents can be reduced.





