

# Statement of Qualifications

*to provide*

## Professional Engineering Services

*for*

### City of Sherman

#### TWDB - DWSRF: Water System Improvements Sherman South Surface Water Line

January 22, 2020



TEXAS • OKLAHOMA • ARKANSAS • LOUISIANA  
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**HAYTER**  
ENGINEERING  
Practical Infrastructure Solutions



January 22, 2020

Mr. Drew Satterwhite, PE  
General Manager  
Greater Texoma Utility Authority  
5100 Airport Drive  
Denison, Texas 75020

RE: Request for Proposals for Professional Engineering Services for anticipated TWDB Funded Water Project - Sherman South Surface Water Line

Dear Mr. Satterwhite:

Congratulations on securing funding for the above-referenced project. Thank you for this opportunity to submit our Statement of Qualifications (SOQ) for this water project for the City of Sherman. As found in your RFQ, we understand that the project is for a new 20" water main, which includes all necessary lines and appurtenances to convey surface water under US 75 and to South Sherman; and which may require some re-allocation of existing groundwater lines.

For over 50 years, Hayter Engineering has been providing engineering services for TWDB funded water projects in coordination with TCEQ. This includes 54 water projects all of which were located in North and Northeast Texas. I will be serving as the Project Manager for this project. I have over 25 years of experience with TWDB funded projects; with 6 water projects in the past 10 years.

These projects have provided invaluable experience and expertise not only to our firm's design capabilities but also our knowledge of and ability to prepare all TWDB documents for preliminary engineering and environmental, constructions plans, contract documents including technical specifications, estimates of probable construction costs, preparation of bid packages which includes assistance with project bidding, contract execution, and construction review.

Through many TWDB and other projects, our firm has developed professional relationships with other professional services firms required for each project scope. Our team for your project will include the required professional discipline of Geotechnical engineering. The specific firms and their key team members are presented in our SOQ. Hayter Engineering will provide all civil engineering services (design surveys, design, construction plans, contract documents, materials testing, construction review, record drawings, and warranty review).

Our SOQ includes our Company Profile and the following as required on the RFQ for Engineering:

1. Experience with design of water systems, including water lines;
2. Project team and project team resumes;
3. Experience with TWDB funded projects;
4. Experience with construction phase engineering services for water systems;
5. Experience in the design/construction services in the North Texas area;
6. List of references with contact information.

We look forward to this opportunity to continue to assist the City of Sherman in the near future.

Sincerely,

HAYTER ENGINEERING

Mike Tibbets, P.E.  
Vice President



## Company Profile

### COMPANY INFORMATION

Hayter Engineering, Inc.  
4445 SE Loop 286  
Paris, TX 75460

Phone : (903) 785-0303  
Fax: (904) 785-0308  
www.hayterengineeringinc.com

### STAFF

- 5 Registered Professional Engineers in Texas
- 3 Engineers-in-Training (1 has taken & passed PE exam in 2019)
- 1 Texas & Oklahoma Registered Professional Land Surveyor
- 1 Survey Party Chief
- 1 Survey Technician
- 2 AutoCAD Technicians (utilizing 2019 Civil3D)
- 4 Administrative/Operations Staff
- 1 Engineering Student Intern (part-time)

### LICENSES AND REGISTRATIONS

Texas Board of Professional Engineers: F-315  
 Texas Board of Professional Land Surveyors: #10028600  
 Arkansas State Board of Professional Engineers Certificate of Authorization: #2521  
 Oklahoma State Board of Professional Engineers and Land Surveyors: #CA 603 PE/LS  
 Louisiana Professional Engineering and Land Surveying Board Professional Engineering Firm License Number: EF6529



### SERVICES / PROJECT TYPES

#### CIVIL ENGINEERING

##### WATER SYSTEMS:

- Treatment & Disinfection
- Deep Wells & Pump Stations
- Distribution Systems
- Elevated & Ground Storage
- Hydraulic Evaluations

##### WASTEWATER SYSTEMS:

- Treatment
- Gravity Sewer Collection
- Wastewater System Evaluations
- Lift Station & Force Mains
- Wastewater Permitting

##### STORMWATER SYSTEMS:

- Hydraulics & Hydrology
- FEMA Floodplain Management
- Stormwater Permitting

##### PARKS & RECREATION

##### ROADWAYS, SIDEWALKS & TRAILS

##### SURVEYING

- GIS/LIS
- Topographic
- Construction
- Land Title
- Easements
- Record Drawings
- Photogrammetric Ground Control
- FEMA
- Boundary
- Improvement
- ALTA
- Platting
- Design

##### MAPPING - GIS & AUTOCAD BASED

- Municipal, Water Utility, Industrial, Commercial, Private, and Educational
- Topographic
- Master Plans

##### ENVIRONMENTAL ENGINEERING

- Environmental Reviews and Assessments
- State and Federal Discharge Permitting

##### PLANNING

- Site Planning
- Water Conservation Plans
- Infrastructure Master Plans

##### RELATED SERVICES

- Securing Grants and/or Financing
- Bidding & Construction Management
- Record Drawings
- Warranty Review



## 1) Recent experience with design of water systems, including water lines

Client	Project Description	Year Completed
Greenville	<ul style="list-style-type: none"> <li>◦ Kari &amp; Sayle 16" Transmission Line - 4,211 LF of 16" DR18 C900 PVC waterline and miscellaneous appurtenances.</li> <li>◦ Center Point Water System - Transmission Line 3,635 LF of 16" DR 18 C905 PVC</li> <li>◦ Center Point Water System - Prepackaged Pump Station, (2) 775,000 prestressed concrete ground storage tanks</li> </ul>	<p>nearing completion 2020</p> <p>2018</p> <p>nearing completion 2020</p>
Paris	<ul style="list-style-type: none"> <li>◦ Capital Improvements Plan - Water and sanitary sewer replacement, approximately 30 miles of water and sewer pipe design.</li> <li>◦ Water Improvements, Phase I - 10,988 LF 6", 8", 20", and 24" water lines; Phase II - 9 waterlines, 8,335 LF of 6", 8" and 14"; Phase III - 3,758 LF of 6" water line</li> </ul>	<p>2018</p> <p>2014-2016</p>
Bonham	<ul style="list-style-type: none"> <li>◦ Water Distribution System Improvements - Contract A approximately 15,700 LF of 6" through 16" water main; Contract B approximately 30,700 LF of 6" through 16" water main, 20 fire hydrants, line tie-ins, D.I. fittings, 256 service transfers.</li> <li>◦ Coating and Repair of Ground and Elevated Silo Road Tanks - 250,000 gallon welded steel elevated tank and 100,000 gallon ground storage tank, interior and exterior rehabilitation and painting</li> </ul>	<p>2010</p> <p>2012</p>
Commerce	<ul style="list-style-type: none"> <li>◦ Water Distribution System Enhancements - 11,357 LF of 2" - 12" water lines</li> <li>◦ University Area Water &amp; Sewer Line Replacements - 5,555 LF of new 4" - 8" water lines</li> </ul>	<p>2016</p> <p>2013</p>
Deport	<ul style="list-style-type: none"> <li>◦ Water Distribution System Improvements - 6" and 8" PVC water mains, 680 LF of highway bores and encasements, 19 gate valves, 7 fire hydrants, 160 LF concrete pavement repair, 380 LF asphalt pavement repair, 60 LF gravel pavement repairs sidewalk repairs, the relocation of 20 water meters, and 49 customer service transfers</li> </ul>	2012
Detroit	<ul style="list-style-type: none"> <li>◦ Water Distribution &amp; Sewer Collection - 2,260 LF of 6" and 8" PVC water mains, rehabilitation of 75,000 gallon elevated tank</li> </ul>	2010
East Tawakoni	<ul style="list-style-type: none"> <li>◦ Water System Improvements - 16,589 LF of 4" and 6" waterlines, and 10,656 LF of 2" and 3" waterlines</li> </ul>	2012
Grand Saline	<ul style="list-style-type: none"> <li>◦ Elevated Tank Rehabilitation - 250,000 gallon ellipsoidal water storage tank, rehabilitation and repainting the interior and exterior</li> </ul>	2017
Point	<ul style="list-style-type: none"> <li>◦ Elevated &amp; Ground Storage Tank Rehabilitation - 150,000 &amp; 42,000 gallon elevated storage tanks interior and exterior rehabilitation and painting; 127,000 gallon ground storage tank exterior painting and rehabilitation</li> </ul>	2015
Tioga	<ul style="list-style-type: none"> <li>◦ New 400 GPM water well and 6" transmission main</li> </ul>	nearing completion
Trinidad	<ul style="list-style-type: none"> <li>◦ Water Tower Renovations and New Raw Water Pump Station - 75,000 gallon elevated tank</li> </ul>	2009
Daisy Farms	<ul style="list-style-type: none"> <li>◦ 14" Water Main Extension to Daisy Farms - approximately 23,540 feet along the west side of SH19/24. This connects to the City of Paris distribution system at a 12" main located in front of Chisum High School and terminates on the east side of SH 19/24 slightly south of FM 2036 at a meter building.</li> <li>◦ 20" Raw Water Main - approximately 4 miles from the NextEra power generation plant near the City of Paris to Daisy Farms.</li> </ul>	<p>2011</p> <p>2014</p>
Lamar County WSC	<ul style="list-style-type: none"> <li>◦ System 7 Waterline Improvements, Toco to Roxton - approximately 9.5 miles of 6", 8" and 12" water main including valves, fittings, service transfers, flush valves, connections to adjacent existing lines, road and drive bores.</li> </ul>	2013



## 2) Project Team and project team resumes

Hayter Engineering has assembled a team of professional disciplines that can provide any range of professional services you required for all your **water infrastructure** needs. This team structure allows us to utilize one discipline or up to five disciplines as your project scope requires.



### Hayter Engineering (HEI) - Prime Consultant - Water Engineering and Surveying

Hayter Engineering was founded in 1957 to serve the infrastructure needs of municipal and rural water utility clients. Continuing to serve those client groups, Hayter Engineering now also serves commercial and industrial groups as well as private developers. Even with the expanding client base the core services provided continue to be all aspects of water and wastewater infrastructure along with a wide range of surveying services.

Over our 63 years of water and wastewater engineering we have had the opportunity to develop professional relationships with many engineering professionals in North Texas. Using these relationships, we have assembled a highly experienced team of professional consultants with the expertise and experience to provide any engineering service required.

Office Location: Paris, Texas



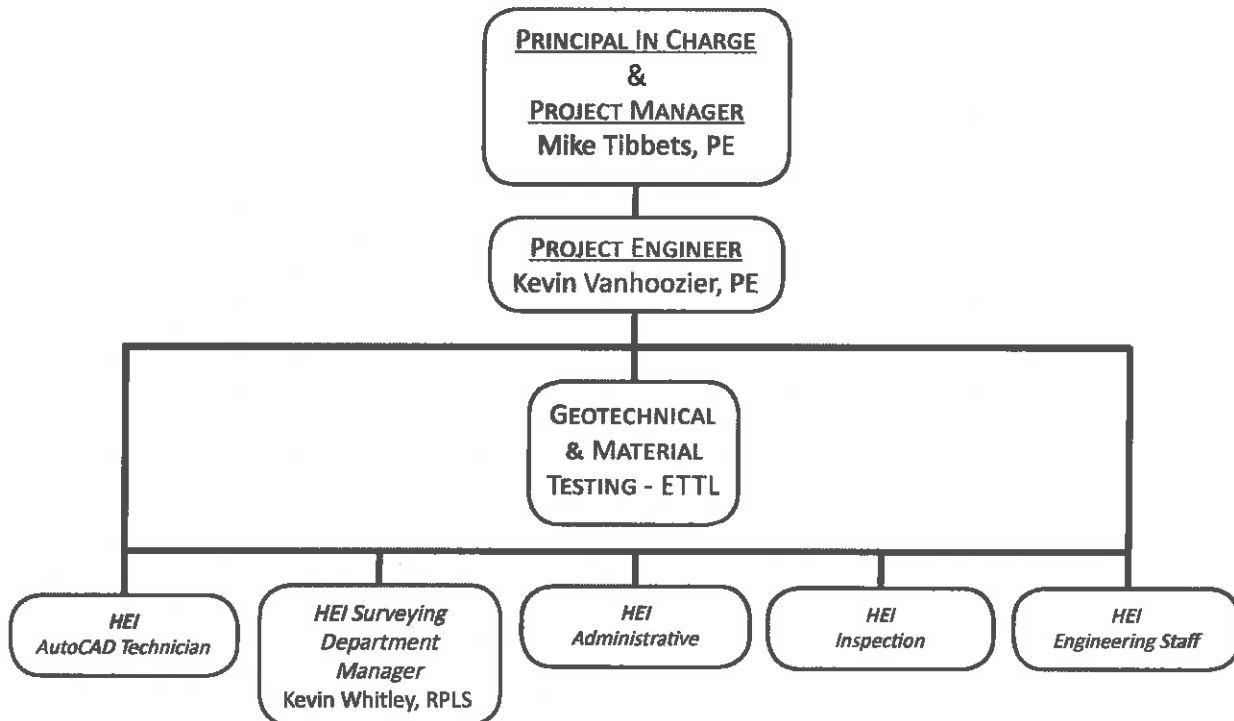
### ETTL Engineers & Consultants – Geotechnical Engineering

ETTL Engineers & Consultants Inc. is a multi-discipline organization which utilizes and coordinates the abilities of engineers, geologists, hydrogeologists, construction and other professionals, to handle a wide range of geotechnical, construction materials engineering and environmental projects, carrying out many hundreds of them annually for its clients.

Hayter Engineering has teamed with ETTL for over 40 years. ETTL has performed geotechnical engineering for over 40 Hayter Engineering projects.

Office Locations Involved: Austin, Texas & Tyler, Texas

## ORGANIZATIONAL CHART



## Michael N. Tibbets, P.E. Project Manager

Mike has 34 years of experience in consulting, design, construction review, and facility start-up for a broad cross-section of civil works. Mike joined Hayter Engineering, Inc. in 1989 and has served as Project Manager from 1989 to 2013, Senior Project Manager since 2013, and Vice President since 2017.

### Related Project Experience

#### WATER FACILITIES

City of Paris, Texas, 18" Water Line and Center Street Pumping Facilities  
City of Commerce, Texas, 12" Water Line to Highway 11  
City of Sulphur Springs, Texas, WTP Backwash Piping Modifications and High Service Pump Discharge Piping  
City of Commerce, Texas, University Area Water & Sewer Lines, 4" to 8" Water Lines - TWDB DW #61475 & CW #72263  
Disinfection Contact Time Analyses: Bonham, Cooper, South Franklin WSC, Emory, Commerce, Community WSC, West Tawakoni, Star Harbor, Trinidad, Golden WSC, Edgewood, Malakoff, and Point, Texas  
City Van Alstyne, Texas, CGMA Point of Take and Distribution System Improvements  
Nevada WSC, Pump Station, Transmission Main, and Storage Facilities  
City of Star Harbor, Texas, Water Treatment Plant, Lines, Standpipe  
City of Commerce, Texas, Emergency Raw Water Pump Station  
Bowie County WSC, Disinfection System Modifications  
City of Paris, Texas, Pat Mayse Raw Water Pump Station Feasibility Report  
City of Edgewood, Texas, Water Treatment Plant Filters, Backwash Tank, and Disinfection Facilities, TWDB DWSRF #61513  
City of Malakoff, Texas, 2.3 miles of 10" Water Lines, Water Treatment Plant, Raw Water Pump Station, USDA Rural Development  
Gafford Chapel WSC, Sulphur Springs, Texas, Lines, Pump Station, USDA Rural Development  
City of Cooper, Texas, Elevated Tanks and 8" Water Line Relocation, TWDB SCHP #60926  
City of Commerce, Texas, Highway 24 Water Line Relocation, Highway 11 Water Line  
City of Emory, Texas, Water Distribution Improvements  
Chloramine Disinfection Conversion: Bonham, Cooper, Emory, Commerce, Trinidad, and Edgewood, Texas  
City of Commerce, Texas, WTP Backwash Trough Replacement  
City of Commerce, Texas, Water Treatment Plant Expansion  
City of Edgewood, Texas, Water Treatment Plant Filter Assessment  
City of Edgewood, Texas, Water Treatment Plant Clarifier  
City of Kemp, Texas, WTP Chemical Feed & Filter Assessment  
City of Wills Point, Texas, Water Treatment Plant Filter Assessment  
South Franklin WSC, Mt. Vernon, Texas, Water Treatment Plant, Lines, Standpipes Modifications



#### EDUCATION

MSCE/Civil Engineering - TX A&M, 1986  
BSCE/Civil Engineering - TX A&M, 1983

#### YEARS OF EXPERIENCE

34 Years of Experience 30 Years with HEI

#### REGISTRATIONS

Professional Engineer, TX #65484, 1989

#### PROFESSIONAL AFFILIATIONS

Texas Society of Professional Engineers  
Water Environment Federation  
A/E/C Project Management Association

#### PUBLICATIONS

"Converting a Problem Into an Opportunity," *TWA (Texas Rural Water Association) Magazine*, August 2019.

"Turning Unused Assets Into Cash: Multi-Agency Cooperation, Texas Style," *TML (Texas Municipal League), Texas Town & City Magazine*, February 2014.

"Seasonal Rule Curve Operation," *ASCE Symposium, Engineering Hydrology Proceedings*, 8/1987, Wurbs & Tibbets; *Feasibility of Seasonal Multipurpose Reservoir Operation in Texas*, Texas A&M University-College Station, May 1986.

State-of-the-Art Review and Annotated Bibliography of Systems Analysis Techniques Applied to Reservoir Operation, *Texas Water Resources Institute, Technical Report 136*, 1985, Wurbs, Cabezas, Tibbets, Roy.

"Optimum Reservoir Operation for Flood Control and Conservation Purposes," *Technical Report 137, Texas Water Resources Institute*, 1985, Wurbs, Cabezas, Tibbets.

**Kevin R. Vanhoozier, P.E.**  
**Project Engineer**

Kevin joined Hayter Engineering in May 2013 after graduating from the University of Texas at Arlington. Kevin assisted project managers with water and wastewater facility projects, streets and drainage projects, engineering reports, and construction observation as a Design Engineer his first 3 years at Hayter Engineering and was promoted to Project Engineer in 2017, and Project Manager in 2019.

**PROJECT EXPERIENCE**

**WATER FACILITIES**

- City of Commerce, Texas, Water Treatment and Distribution System Line Replacements
- City of Greenville, Texas, Kari Lane and Sayle 16" Transmission Line
- City of Greenville, Texas, Center Point Pressure Improvements (Pump Station)
- City of Greenville, Texas, Center Point Transmission Line
- City of Cooper, Texas, Treatment Plant Improvements and Filter Rehab
- City of Paris, Texas, Water Treatment Plant Variance Request
- City of Lone Oak, Texas, Chloramine Disinfection System
- City of Kemp, Texas, Chemical Feed Analysis
- City of Kemp, Texas, Water Treatment Plant Filter Rehabilitation
- City of Trinidad, Texas, Raw Water Source Analysis
- Central Bowie County WSC, Texas, Pump Station Rehabilitation and New Disinfection System
- Gafford Chapel WSC, Sulphur Springs, Texas, SH 11 Utility Relocation
- Daisy Dairy, Raw Water Diversion Station, Lamar County, Texas
- Texas A&M University-Commerce, Pump Station Upgrades
- Westwood Utility, Fairfield, Texas, High Service Pump Replacement
- Sulphur River Municipal Water District, Commerce, Texas, Reservoir Rights Analysis
- Pleasant Grove Water System, Texas, Analysis & Model
- Pink Hill WSC, Texas, CCN Amendment



**EDUCATION**

BSCE - University of Texas at Arlington, Texas, 2013

**YEARS OF EXPERIENCE**

6 Years of Experience with HEI

**REGISTRATIONS**

Professional Engineer, Texas  
#127925, 2017

Professional Engineer, Oklahoma  
#30332, 2018

Professional Engineer, Louisiana  
#42611, 2018

Professional Engineer, Arkansas  
#18385, 2018

**PROFESSIONAL AFFILIATIONS**

Texas Society of Professional Engineers

**SEMINARS**

Critical Transmission Main Monitoring:  
Innovation in Leak Detection

Data Flow Systems: SCADA systems

EJCO: AASHTO M306

Autodesk Hydraulics and Hydrology  
Fundamentals

4M's of Collection System  
Management

**Kevin K. Whitley, R.P.L.S.**  
**Principal / Survey Manager**

Kevin has 22 years of experience in design surveying and boundary surveying, using both GPS and conventional methods for field surveying and AutoCAD Civil 3D 2019 as well as ArcMap 10.3 in the office. Kevin has been Survey Manager since 2006, and became a principal of Hayter Engineering in 2017.

**Survey Experience**

**DESIGN SURVEYS FOR TWDB WATER IMPROVEMENTS PROJECTS:**

- City of Paris, Capital Improvements Project, Water & Sanitary Sewer Line Replacements; Phase I Wastewater Improvements - topographic surveys (30.3 miles) and construction staking
- City of Emory, Clearwell at the Water Treatment Plant, WTP Plant Filter Backwash Improvements, TWDB DW #62527
- City of Edgewood, WTP Filters, TWDB DW #61513
- City of Bonham, WTP Improvements: TWDB DW #60122
- City of Alba, Water System Improvements Line Replacements and Deep Well, TWDB DW #21659
- City of Blossom, Water System Improvements Elevated Tank Rehabilitation and Painting, Flow Valve and Fire Hydrant Rehabilitation, Drive-By Meter System, TWDB DW #61504
- City of Bogata, Water System Improvements Line Replacements, Deep Well #7, Water Pumping and Ground Storage Facilities, TWDB DW #21690
- City of Cooper, Water Line Replacements & Elevated Storage Tank, TWDB SCHP #60926
- City of DeKalb, Water Improvements Line Replacements & Elevated Tank Rehabilitation, TWDB SCHP #21533
- City of Deport, Water System Line Replacements, TWDB DW #60550
- City of East Tawakoni, Water System Improvements Highway 276 & Oak Leaf Trail Transmission Main Replacement, TWDB DW #61223; Water System Line Replacements, TWDB DW #61743
- Golden WSC, Water System Improvements Line Replacements, Ground Storage Tank Replacement Plant #2, TWDB DW #61308; System 5 Booster Pump Station, Ground Storage Tank, Hydro Tanks & Lines, TWDB DW#60567
- Lamar County WSD, System #7: Waterline Replacement Toco to Roxton; Roxton and High Standpipe Mixers; Waterline Replacement FM 137 Roxton to Howland, TWDB DW #61524; Water Improvements Western System: New Ground Storage Tank; New Booster Pump Station, and New Transmission Main, TWDB DW #61366
- City of Paris, Phase I, II, and III Waterline Replacements, TWDB DW #62525
- Red River County WSC, Water Improvements New Madras Elevated Tank; Deep Well; Booster Pumps; Ground Storage Tank, TWDB DW #61515
- City of Reno, Water Improvements Elevated Tank; Phase I Water Distribution Lines to New Elevated Tank, TWDB DW #60906; Water System Improvements: Phase II & Phase III Water Line Replacements TWDB DW #61014



**EDUCATION**

Bachelor of Science  
Stephen F. Austin State University, 1997

**YEARS OF EXPERIENCE**

22 Years of Experience  
21 Years with Hayter Engineering

**REGISTRATIONS**

Registered Professional Land Surveyor –  
2006, Texas (5892)  
Professional Land Surveyor - 2014,  
Oklahoma (1901)

**SEMINARS**

Texas Society of Professional Surveyors,  
Symposium - "Exploring Texas  
boundaries," "An Expedition Through  
the Act and Rules," "Retraceable  
Legal Descriptions."  
A Journey Through the Matrix  
(Texas Board of Professional Licensed  
Surveyors Act & Rules)  
A Surveyor's Guide to Platting in Texas  
Professional Ethics in Land Surveying  
TBPLS Act & Rules  
Texas Laws for Professional Surveying  
"Out of Bounds" Exploring Texas  
Boundary Law  
Resolving Conflicts of Survey Evidence  
Texas Inland Water Boundaries  
The 2007 National Readjustment  
Hazwoper 24 Hour Course  
Underground Facility Damage  
Prevention  
Survey Data Management System  
(SDMS)



**AREAS OF EXPERTISE**  
Geotechnical Engineering  
Engineering Geology

**REGISTRATION**

Professional Engineer: Texas,  
No. 72441  
Certified Professional Geologist:  
CPG No. 8664  
Licensed Professional  
Geologist: Texas, 161  
Registered LPST, CAPM 00262

**EDUCATION**

B.S. Engineering Geology  
Texas A&M  
1982

B.S. Mining Engineering  
Texas A&M  
1984

**PROFESSIONAL MEMBERSHIPS**

American Institute of  
Professional Geologists

American Society of  
Professional Engineers

National Groundwater  
Association

**PROFESSIONAL HISTORY**

Vice President  
ETTL Engineers and  
Consultants, Inc.  
2005-Present

Senior Project Manager  
ETTL Engineers and  
Consultants, Inc.  
1990-2005

Manager of Environmental  
Services, ETTL Engineers and  
Consultants, Inc.  
1988-1990

Branch Manager, Longview  
Office, ETTL Engineers and  
Consultants, Inc.  
1986-1988

Field Engineer  
Welex, A Halliburton Company  
1984-1986

**C. Brandon Quinn, PE, CPG, PG**  
**Vice President and Manager of Engineering Services**

**SUMMARY OF QUALIFICATIONS**

- ☆ 33 years of civil engineering and related construction experience
- ☆ 30 years of responsible charge of geotechnical design and construction materials engineering for transportation, industrial, commercial and residential projects provides the background necessary to understand the relationship between design and construction issues
- ☆ Familiarity with engineering geology, groundwater analysis, environmental studies, geotechnical engineering studies for shallow and deep foundation systems, and construction materials testing
- ☆ Knowledge gained from 15 years experience as Senior Project Manager on design-build highway projects, PS&E transportation projects, dams, landfills, Superfund Sites, LPST's, asbestos abatement projects, water and wastewater projects
- ☆ Familiarity with: lab testing applicable to wide range of geotechnical issues, typical expected parameter values, interpretation of data and development of appropriate cost-effective solutions, alternative foundation/pavement design methods

**Experience**

Mr. Quinn has 33 years of experience in civil and environmental projects in the areas of geotechnical engineering, construction materials testing, engineering geology, hydrogeology, and environmental geology and engineering; geotechnical foundation design and quality control testing in levees, earthen dams, pipeline, water in-take structures, water treatment plants, ground storage tanks, electrical substations, power plants, dams, schools, highways, bridges, FAA asphaltic concrete runways and taxiways; construction of liners in municipal and hazardous landfills, groundwater monitoring and remediation systems; and design of asbestos abatement projects in occupied multi-story structures.

During his employment with ETTL, Mr. Quinn has had experience with many geotechnical and construction materials engineering projects for Corps of Engineers; geotechnical investigations of solid waste landfills, water and wastewater treatment plants, and single and multi-storied facilities; design of groundwater and in-situ soil remediation systems for leaking underground storage tank sites; design of asbestos abatement projects in public schools, industrial facilities and commercial buildings; field investigation and evaluation of RCRA and State Superfund sites. In the area of environmental site assessments, he has carried out Phase I and Phase II investigations, and Phase III site remediations of industrial facilities, commercial properties, agricultural properties, cemeteries, fueling facilities, and oil and gas exploration sites.





### 3) Experience with TWDB DWSRF funded projects

Owner	Description
City of Blossom	Elevated Tank Rehabilitation and Painting
	Flow Valve and Fire Hydrant Rehabilitation
	AMR Meter System
City of Bonham	Water Plant Improvements
	High Service Booster Pump Station
	Various Water Storage Tanks Repair and Paint
	New Elevated Tank
	Water Lines - Contract A
	Water Lines - Contract B
	Fixed Base Water Meter System
	Water Meters Installation
	Water Facilities Video Surveillance System
	Elevated Tank Mixers
	Coating and Repair of Water Storage Tanks on Silo Road
City of Commerce	University Area Water & Sewer Line and Manhole Replacements
	Water Lines, Raw Water Pump Station Piping & Valves Replacement and Painting of Clarifier
City of Cooper	Elevated Storage Tank and Water Line Replacements (Small Community Hardship Program)
City of DeKalb	Line Replacements, Elevated Tank Rehabilitation (Small Community Hardship Program)
City of Emory	Clearwell at the Water Treatment Plant; Water Treatment Plant Filter Backwash System
Golden WSC	Deep Well #7 & #8
	Line Replacements
	System 5 Booster Pump Station, Ground Storage Tank, Hydro Tank & Lines
Lamar County WSD	System #7 Waterline Replacement Toco to Roxton
	System Wide AMR Meter Systems
	System #7 Roxton and High Standpipe Mixers
	System #7 Water Line Replacement FM 137 – Roxton to Howland
	Western System Ground Storage Tank & Booster Pump Station
	Western System Transmission Main
City of Paris	Phase I, II, & III Water Line Replacements
Red River County WSC	New Madras Elevated Tank
	FM 911 South Test Well & Final Well
	FM 911 Booster Pumps, Chlorination System, and Ground Storage Tank
City of Reno	Elevated Tank
	Phase I Water Distribution Lines to New Elevated Tank
	Chlorination Facilities for New Elevated Tank
	Phase II & III Water Line Replacements
City of Tioga	Transmission & Storage Facilities for Deep Well #4
	Line Replacements
	Deep Well #5 & Transmission Main



#### 4) Experience with construction phase engineering services for water systems

All of the water system projects listed in this statement of qualifications included the construction phase services necessary to construct and implement the improvements described.

These services include the following:

- Preparation of preconstruction conference notes
- Conduct preconstruction conference and issue the notice to proceed (NTP)
- Addressing contractor's requests for information (RFI's)
- Reviewing contractor's submittals and shop drawings
- Coordinating materials testing
- Coordinating with professional subcontractors (geotechnical, electrical, structural, etc.)
- Reviewing and processing contractor's monthly pay requests
- Coordinating with the on-site observer
- Periodic site visits by the Project Manager and / or Project Engineer
- Checking record drawing updates monthly
- Meeting TWDB representatives for site visits
- Prepare and submit monthly Outlay Reports to the TWDB
- Assisting in start-up and trouble-shooting operations
- Assisting the Owner with questions and concerns expressed by landowners
- Coordinating with TxDOT representatives for installations in and across TxDOT ROW
- Coordinating with railroad representatives for installations across RR ROW
- Presenting project status reports to the Owner
- Conduct pre-final and final inspections, and ensure punchlist items are completed
- Preparing change orders for submission to the Owner and TWDB for review and approval
- Preparing and submitting budget modifications to the TWDB for review and approval
- Preparing final paperwork documentation for the TWDB project close-out
- Assist the Owner with warranty issues
- Conduct a one-year warranty review with the Owner at the end of the warranty period and ensure contractor resolves any remaining issues

To date, there have been no water system projects undertaken by Hayter Engineering that were for construction only. All of the projects where Hayter Engineering provided the construction phase services also included the design by Hayter Engineering.

#### 5) Experience in the design/construction services in the North Texas area

All 54 DWSRF water project referenced in the cover letter and all of the water system projects listed in this statement of qualifications involved both design and construction.

As can be seen from the list provided in item 1), the majority of all of our water projects have been located in the North Texas area. We are therefore very familiar with design considerations, contractors, working conditions, and all other expectations involved with water system projects in this part of Texas.



## 6) List of references with contact information - Water System Projects

Name/Title	Client	Phone	Email
James Belcher, Water Plant Superintendent	City of Greenville	903-457-3190	<a href="mailto:jbelcher@ci.greenville.tx.us">jbelcher@ci.greenville.tx.us</a>
David Pitcock, General Manager	Lamar Count Water Supply District	903-785-5586	<a href="mailto:david@lamarcountywatersupply.com">david@lamarcountywatersupply.com</a>
Lance Capehart, Director of Utilities	City of Bonham	903-583-7555	<a href="mailto:lcapehart@cityofbonham.org">lcapehart@cityofbonham.org</a>
Joe Davis, Public Works Director	City of Commerce	903-408-9656	<a href="mailto:joedavis8052@gmail.com">joedavis8052@gmail.com</a>
Joey Lacaze, Water & Sewer Superintendent	City of Winnsboro	903-342-3654	<a href="mailto:jlacaze@winnsborotexas.com">jlacaze@winnsborotexas.com</a>
Doug Harris, Director of Utilities	City of Paris	903-784-9289	<a href="mailto:dharris@paristexas.gov">dharris@paristexas.gov</a>
Scotty Stegall, former Mayor	City of Cooper	903-517-8637	<a href="mailto:scottstegall@yahoo.com">scottstegall@yahoo.com</a>
Daniel Romans, Operator	Gafford Chapel WSC	903-439-5049	<a href="mailto:dromans@rocketmail.com">dromans@rocketmail.com</a>



## SHERMAN SOUTH SURFACE WATER LINE Project Approach

It is the understanding of Hayter Engineering that the financial application for this project has already been completed, and as such, the funding for the project is already in place. Therefore, Hayter Engineering will perform the following tasks as a part of the design and construction review services:

### PRELIMINARY DESIGN

- Meet with City staff to discuss the scope of the project. Determine the projected population growth in the areas served by the proposed pipeline.
- Request record drawings of the existing utilities.
- Call for locates on the franchise utilities (gas, power, phone, fiber, etc.).
- Obtain the City's preferred styles, models, and brands of isolation valves, fire hydrants, service connections, etc.
- Perform a benefit-cost analysis on pipeline materials of construction. Compare PVC, DIP, and RCCP with input from the City staff as to preferences and priorities. Select pipeline materials.
- Perform a hydraulic analysis of the surface water system from the Southwest Booster Pump Station to the Shepard Elevated Storage Tank. Model present, short-term, and long-term demand conditions. Model the system with, and without, Constitution Village subdivision.
- Consider water age, and its effect on the disinfection residual, when modeling proposed pipe sizes.
- Consider the feasibility of changing some of the existing groundwater lines to surface water lines as a cost-cutting measure.
- Discuss road bore requirements with TxDOT. Consider the use of directional drilling (if allowed by TxDOT) due to the steep embankments on both sides of the road. Confirm the limits of the proposed widening of Highway 75 in this vicinity.
- Prepare a draft of the proposed water line layout in plan and profile. Show existing underground utilities.
- Show the locations of TxDOT right-of-way, as well as the property lines of private property owners, for the investigation of crossing permits and for utility easements.
- Prepare a preliminary opinion of probable construction cost (OPCC).
- Meet with City staff to discuss layout. Revise as required to finalize.
- Prepare documents for submission to TWDB. Obtain TWDB approval.

### DESIGN SURVEYS

- Perform a topographic survey of the preliminary layout discussed above.
- Should minor conflicts arise during the design phase; revise the topographic survey as required.

### DESIGN

- Conduct soil bores in key locations on both sides of Highway 75 (for road bore pit and receiving pit), as well as any other locations where road bores are anticipated.
- Prepare a 30% design set - construction plans for City staff to review. Revise as required.
- Prepare a 70% design set - construction plans and contract documents for City staff to review. Prepare an opinion of probable construction cost (OPCC) for the 70% design set. Revise as required after City's review.
- Prepare 100% design - construction plans and contract documents and revise the OPCC for City staff to review. Revise both as required.
- Submit the construction plans and contract documents to the TWDB after receiving the City's approval. Address TWDB comments.
- Perform boundary survey work (if the City requests it) for the preparation of easements (as needed).
- Assist City staff with easement acquisition if requested.



- Prepare plans and specifications for GTUA to bid out after receiving approval of the design from the TWDB.

### **DELIVERABLES**

- PDF file of construction drawings and contract documents to City and GTUA.

### **BIDDING**

- Obtain TWDB permission to advertise for bids.
- Answer technical questions from bidders and suppliers.

### **CONSTRUCTION REVIEW**

- Prepare notes for the preconstruction conference.
- Coordinate with the City's engineers and inspectors.
- Respond to RFI's.
- Prepare and process monthly pay requests.
- Prepare and submit monthly Outlay Reports to TWDB.
- Prepare budget modifications for TWDB approval.
- Process change orders (as needed), obtaining TWDB approval.
- Conduct on-site construction review trips at key points in the construction process (beginning of road bores, completion of road bores, the crossing of other utilities in close proximity, connection to existing system, pressure testing, flow testing, etc.).
- Materials testing will be conducted at the request of the City. This testing may include, but is not limited to, backfill and embedment sieve analysis, backfill compaction, concrete strength (for concrete road repairs), etc.
- Attend TWDB site visits.
- Conduct a prefinal and a final inspection with the contractor and the City's representatives. Prepare a punchlist that sets forth deviations from the contract documents. Issue the Certificate of Substantial Completion at the appropriate time. The Certificate of Substantial Completion will set forth the date of substantial completion and the beginning of the warranty period.
- Issue a Certificate of Construction Completion at the final completion of the job to notify the TWDB that the project has been constructed in substantial conformance with the approved plans and specifications.
- Prepare a set of record drawings that reflect the final project layout.
- Assist the City with TWDB project close-out.

### **WARRANTY REVIEW**

- In the 12<sup>th</sup> month of the warranty period, Hayter Engineering will conduct a walk-through of the project with City staff. Any defects in materials and / or construction will be noted. A punchlist will be provided to the City and the contractor. Hayter Engineering will monitor the contractor's completion progress on the punchlist and along with City staff verify completion.