

November 29, 2017

Romin A. Khavari, P.E., CFM  
City Engineer  
City of Grand Prairie  
P.O. Box 534045  
Grand Prairie, Texas 75053-4045

**RE: On-Call Subsurface Utility Engineering Services**

Dear Mr. Khavari,

The Rios Group, Inc. (TRG) is pleased to submit the requested packet for Subsurface Utility Engineering Services for the City of Grand Prairie. We have structured our team to perform services required under any project that would be issued to us.

We appreciate the opportunity to provide this qualification packet and are eager to once again serve the City of Grand Prairie and aid in accomplishing the goals established for this contract, and we look forward to that opportunity in the near future.

Respectfully submitted,



Rosa Navajar  
President  
[RNavejar@rios-group.com](mailto:RNavejar@rios-group.com)

## Qualifications

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Established in 2012, The Rios Group, Inc. (TRG) is a Texas Corporation providing full service professional Subsurface Utility Engineering (SUE), and Utility Coordination (UC). We have provided these services for 13 years, including the 8 years we were known as the Utilities Division of Gorrondona & Associates. Headquartered in Fort Worth, Texas, TRG maintains a staff of more than 40 people, with additional locations in Dallas, Austin (Round Rock), Houston (The Woodlands), and San Antonio.

When used during preliminary phases, SUE allows early identification of utility conflicts and helps minimize the impact that existing underground utilities have on the project. We offer extensive SUE capabilities having provided over 5 million linear feet of QL "B" services and over 10,000 test holes. TRG is confident in our ability to successfully serve TxDOT and we have the resources on-hand to commit to this project. TRG owns our equipment consisting of 14 vehicles, and 7 Vacuum Excavation Units, as well as core drills, traffic control equipment, and other necessary ancillary supplies. TRG has provided services on hundreds of SUE projects throughout the state of Texas, and has mapped utilities for important municipal and TxDOT projects.

The Rios Group's experience with municipal clients throughout the state, specifically in the North Texas cities of Grand Prairie, Arlington, Cedar Hill, Dallas, Euless, Fort Worth, Frisco, Garland, Grapevine, Hurst, Irving, Keller, Lewisville, McKinney, North Richland Hills, Plano and Richardson provides an additional understanding of working with municipalities and their requirements, such as:

- Ability to schedule timely project response
- Adequate resources to respond to assignments
- Project administration
- Quality Control / Quality Assurance
- Safety

TRG is certified by the State of Texas as a Historically Underutilized Business (HUB), by the NCTRCA as a Disadvantaged Business Enterprise (DBE), and by the NCTRCA and SCTRCA as a Minority Business Enterprise (MBE), and a Small Business Enterprise (SBE).

## Key Personnel Resumes

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### Perry Burnett

#### *Project Manager - Lead*

Perry Burnett has been involved with utilities on transportation projects for over 29 years. As Director of Utility Coordination Services, Perry is responsible for utility coordination, preparation of utility agreements, utility conflict analysis, SUE investigations, utility adjustment estimation, utility construction management and verification and client relations. While working for TxDOT Fort Worth District, he coordinated utility adjustments and reimbursements with various cities and utility companies within the nine county District. Perry also served as a member of TxDOT's Utility Manual and Utility Accommodation Rule (UAR) re-write teams. His participation was requested because of his vast knowledge of utility/highway construction issues.

#### Representative Experience

##### Freetown Road, Robinson to Corn Valley, Grand Prairie, Texas

**PROJECT MANAGER.** Perry's team was responsible for providing QL"B" and QL"A" SUE services. Quality Level "B" SUE was performed on utilities that potentially impacted the proposed roadway and storm drain facilities. Over 14,300 linear feet of Quality Level "B" SUE was provided along the alignment. Designated utilities included gas, telecommunications, electric lines and traffic signals. The final QL"B" deliverable consisted of a comprehensive utility file in CADD format and signed and sealed utility plan sheets. The QL"B" SUE was used to perform a conflict analysis and test holes were excavated at 14 potential conflict locations.

##### City of Hurst, Pipeline Road from Precinct Line to Hurstview, Hurst, Texas

**PROJECT MANAGER.** The limits of this project were from Right-of-Way to Right-of-Way, along Pipeline Road from the east side of Precinct Line Road to the east side of Hurstview Drive. Quality Level "B" SUE was performed on 15,000 LF of roadway at intersecting streets. Utilities encountered included water, gas, and fiber optic cable. A total of eleven Quality Level "A" SUE test holes were excavated in and out of pavement. Deliverables included a utility file in accordance with CAD standards provided by client.

##### Division Street and Stadium Drive, Arlington, Texas

**PROJECT MANAGER.** In support of the owner's proposed improvements to Division Street and Stadium Dr., Perry's team members provided QL "B" SUE and QL "A" test holes near the bridge columns along Division at a UPRR crossing, designating utilities along E. Division Street, Stadium Drive and the Union Pacific Railroad. Along E. Division Street utilities were designated from right-of-way to right-of-way and from the south curb line to the south right of way line from Johnson Creek. Utilities encountered throughout the project were AT&T telephone and fiber optics, Level 3 and MCI fiber optics, Atmos gas, Oncor electric and City of Arlington water, storm and wastewater lines. Final deliverables included a field sketch, shot summary and test hole summary depicting the designated utilities and test hole locations.



## Tim Habenicht, PE

### *Project Manager - Support*

Tim Habenicht has worked in the civil engineering and civil construction fields for more than 5 years. As a Project Manager for The Rios Group, Inc., Tim is responsible for managing subsurface utility engineering (SUE) investigations for both public and private clients, preparation and maintenance of project schedules, and interaction with client representatives. Mr. Habenicht has worked as an engineer for hundreds of subsurface utility projects throughout the state of Texas for various clients including the City of Grand Prairie, City of Fort Worth, City of Dallas and City of Plano.

### **Education**

B.S., Civil Engineering, Texas A&M University, 2010

### **Registration:**

Professional Engineer, PE No. 123220, 2016

### **Representative Experience**

#### **Main Street at RR Bridge Drainage Improvements, Grand Prairie, TX**

**PROJECT MANAGER.** TRG performed QL “D” through QL “A” SUE on this project in Grand Prairie, TX for the proposed Drainage Improvements along E. Main Street at the RR Bridge. In support of Pacheco Koch, TRG performed over 2,040 LF of QL “B” and over 900 LF of QL “C/D” SUE. TRG also excavated a total of ten QL “A” SUE test holes on communication lines that ranged in depth from 1.46 feet to 11.10 feet. The final deliverable consisted of a comprehensive utility file in CADD format, depicting locations of the designated utilities and test holes, as well as a test hole summary table that communicated test hole numbers, utilities observed, and depths to tops of utilities.

#### **Main and Jefferson Street Storm Drain Improvements, Grand Prairie, Texas**

**PROJECT MANAGER.** TRG performed QL “D” through “A” SUE on this project in Grand Prairie, TX for the proposed construction of a 60” storm drain along Main Street and Jefferson Street. In support of KSA Engineers, TRG provided over 3,975 LF of QL “B” SUE which included: communications, gas, storm drain, electric, and traffic signal. A total of fifteen QL “A” SUE test holes were excavated, ranging in depth from 1.31 feet to 13.21 feet. The final deliverable consisted of a comprehensive utility file in CADD format, depicting locations of the designated utilities and test holes, as well as a test hole summary table that communicated test hole numbers, utilities observed, and depths to tops of utilities.

#### **Heritage Trace Parkway and Tehama Ridge Roundabout, Fort Worth, Texas**

**PROJECT MANAGER.** TRG performed QL “D” through “B” SUE on this project in Fort Worth, TX for the proposed roundabout at the intersection of Heritage Trace Parkway and Tehama Ridge. In support of KHA, TRG provided over 9,490 LF of QL “B” SUE and 900 LF of QL “C/D” SUE in the area around the intersection. The final deliverable consisted of a comprehensive utility file in CADD format, depicting locations of the designated utilities.



## Joseph Anderson, PE

### *Project Engineer*

Joe has worked in the civil engineering and civil construction fields for more than 30 years. As the Director of Engineering Services for TRG, Mr. Anderson is responsible for managing subsurface utility engineering (SUE) investigations for both public and private clients, coordination and reimbursement of utility adjustments in rights-of-way, preparation of cost proposals, preparation and maintenance of project schedules, cost tracking, project staffing, negotiation and management of subcontracts, procurement of project materials and supplies, and interaction with client representatives. Mr. Anderson has been the Engineer of Record on hundreds of subsurface utility projects throughout the state of Texas for various clients including the City of Grand Prairie, City of McKinney, City of Dallas, and the City of Fort Worth.

### Education

M.S. in Civil Engineering, Texas A&M University, 1985

B.S. in Civil Engineering, Texas A&M University, 1983

### Registration

Professional Engineer, Texas No. 69493, 1991

### Representative Experience

#### Hulen at Overton Intersection, Fort Worth, Texas

**PROJECT MANAGER.** TRG provided QL”B services throughout the intersection of Hulen and Overton Ridge to aid in determining the route for the traffic control system. Once the conduit alignment was determined for the traffic control system, five (5) potential conflicts with existing utilities were identified. TRG completed five (5) Quality Level “A” SUE test holes on the underground high-voltage electric lines, telephone and fiber optic lines. TRG provided a SUE file depicting the type and horizontal location of the designated utilities and test hole as a final deliverable.

#### 34th Street Reconstruction; Quaker to Indiana, Lubbock, Texas

**PROJECT MANAGER.** TRG provided Quality Level “B” SUE services on utilities that potentially impacted the proposed reconstruction of the roadway. Over 35,000 LF of Quality Level “B” SUE was provided along the alignment. Designated utilities included gas, telecommunications, electric lines and traffic signals. The final Quality Level “B” deliverable consisted of a comprehensive utility file in CADD format.

#### Risinger Road, Fort Worth, Texas

**PROJECT ENGINEER.** Quality Level “B” SUE services were performed along the proposed alignment of Risinger Road from the existing Risinger Road improvements east of McCart Avenue to Crowley Road. Utilities designated over 41,000 LF included: communications, gas, electric, water, sanitary sewer. Deliverables included a utility file depicting the type and horizontal location of the designated utilities, utilizing line styles and symbology in accordance with CAD standards provided by client. 12 Quality Level “A” SUE test holes are expected to be completed in the next phase of design.

## Firm's Availability

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TRG is committed to providing quality, timely SUE services for the City. TRG can mobilize a crew to the field within 5 to 15 working days of notice to proceed. TRG is committing Perry Burnett, Tim Habenicht, PE, Joseph Anderson, PE and their support staff one CADD technician and two field crews to this contract. All personnel are dedicated to delivering your project(s) within the specified timeframe following notice to proceed.

## Firm's Approach & Pricing

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TRG will perform the SUE work required for this project in general accordance with the recommended practices and procedures described in ASCE Publication CI/ASCE 38-02 (Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data). As described in the mentioned ASCE publication, four levels have been established to describe the quality of utility location and attribute information used on plans. The four quality levels are as follows:

- Quality Level D (QL"D") – Information derived from existing utility records;
- Quality Level C (QL"C") - QL"D" information supplemented with information obtained by surveying visible above-ground utility features such as valves, hydrants, meters, manhole covers, etc.
- Quality Level B (QL"B") – Two-dimensional (x,y) information obtained through the application and interpretation of non-destructive surface geophysical methods. Also known as **"designating"** this quality level provides the horizontal position of subsurface utilities within approximately one foot.
- Quality Level A (QL"A") – Three dimensional (x,y,z) utility information obtained utilizing non-destructive vacuum excavation equipment to expose utilities at critical points which are then tied down by surveying. Also known as **"locating"**, this quality level provides precise horizontal and vertical positioning of utilities within approximately 0.05 feet.

It is the responsibility of the SUE provider to perform due-diligence with regard to records research (QL "D") and acquisition of available utility records. The due-diligence provided for this project will consist of visually inspecting the work area for evidence of utilities and reviewing the available utility record information. Utilities that are not identified through these efforts will be here forth referred to as "unknown" utilities. TRG personnel will scan the defined work area using electronic prospecting equipment to search for "unknown" utilities. However, TRG is not responsible for designating and locating these "unknown" utilities.

### Designating Procedures

Prior to beginning field designating activities, TRG's field manager will review the project scope of work and available utility records. Once these initial reviews are complete, the field manager and technicians will begin designating the approximate horizontal position of known subsurface utilities within the specified project limits. A suite of geophysical equipment (electromagnetic induction, magnetic) will be used to designate metallic/conductive utilities (e.g. steel pipe, electrical cable, telephone cable). TRG will establish routine/ordinary traffic control (cones and free standing signage, etc.) whenever required as part of our standard pricing. If non-routine traffic control measures are required (barricades, flag person, changeable message board, etc.), these services will be considered extra.



Accurate collection and recording of designated utilities is a critical component of the SUE process. TRG utilizes a proven method of collecting and recording survey information once the utilities have been designated in the field. TRG's field manager will produce detailed sketches depicting each utility as well as relevant surface features such as roadways, buildings, manholes, fire hydrants, utility pedestals, valves, meters, etc. Each utility will be labeled with a unique ID code. For example, if two different water lines exist on the project, one will be labeled W1 and the other W2. Paint and pin flags will be used to designate the utilities in the field. A labeled pin flag or paint mark will be used to mark each location where a survey shot is required. The locations will be numbered sequentially for each individual utility line. For example, if there are 10 shots required on water line W1, the points will be numbered W1-1 through W1-10.

### **Locating Procedures**

TRG will utilize non-destructive vacuum excavation equipment to excavate test holes at the required locations. Due to the risk of damage, TRG will not attempt to probe or excavate test holes on any AC water lines unless approval is obtained from the owner in advance. Once each utility is located, TRG will record the utility type, size, material, depth to top, and general direction. Each test hole will be assigned a unique ID number and will be marked with a nail/disk. The test-hole ID number and other pertinent utility information will be painted at each test-hole location.

We have assumed that all test holes will be in non-paved areas and are accessible to truck-mounted equipment, and that routine traffic control (cones and free-standing signage, etc.) will be required during the performance of the QL "A" SUE work.

### Proposed Fees

TRG proposes to provide the services as described above on daily and lump sum basis, for a not-to-exceed budget of \$45,000.00 A breakdown of our rates:

The Rios Group, Inc. Rates for City of Grand Prairie		
Direct Expenses*		
	Rate	Unit Description
Admin./Permit Traffic Control Survey	\$500.00	LS
	\$1,200.00	Daily
	\$1,850.00	Daily
QL "B", "C&D" SUE		
	Rate	Unit Description
QL "B" SUE, by LF	\$1.50	LF
QL "B" SUE, Daily	\$2,500.00	Daily
QL "C&D" SUE	\$0.45	LF
QL "A" SUE (Test Holes)		
Depth	In Pavement Using Coring Machine	Outside Pavement
0-4 ft.	\$1,150.00	\$950.00
4-8 ft.	\$1,450.00	\$1,250.00
8-12 ft.	\$1,750.00	\$1,550.00
12-18 ft.	\$2,500.00	\$2,300.00

\*Note that on some projects, direct expenses may be incurred such as permitting costs, non-standard pavement repair methods or quantities, railroad flagmen, or non-standard traffic control (arrow boards, intersection lane closures, flagmen, etc). If such costs are going to be incurred for a specific Work Authorization, these costs will be discussed with the City, and then these direct costs will be itemized and invoiced at cost.