



August 3, 2020
Proposal No.: DFW20P114787

City of Coppell
Engineering-Public Works
816 S. Coppell Road
Coppell, Texas 75019

Attention: Mrs. Jamie Brierton
Project Manager

**Subject: Construction Materials Engineering & Testing Services Proposal
Airline Drive – Paving, Water, Sanitary Sewer and Drainage Improvements
Coppell, Texas**

Dear Mrs. Brierton:

Kleinfelder is pleased to submit this proposal for construction materials engineering and testing and/or observation (CoMET) services for the Airline Drive reconstruction project. The project consists of reconstructing of roadway, sidewalk, and utility improvements. The project will take place in the City of Coppell.

PROJECT INFORMATION

Based on our understanding of the project plans and specifications, prepared by Kimley Horn and Associates, Inc. (dated June 2020) we understand that this project will generally consist of the following:

- 10" Reinforced Concrete Paving with 12" lime-treated subgrade
- Vertical Root Barrier System
- 4" Reinforced Concrete Sidewalks
- Storm Drainage Pipeline and Inlet Installation
- Waterline Installation
- Sanitary Sewer Pipeline Installation
- A construction schedule of approximately 400 calendar days

SCOPE OF SERVICES

The following scope of services is based on project plans and our discussions with the City of Coppell's project representatives. Our construction materials engineering & testing services scope is limited to providing periodic testing and/or observations for the previously mentioned construction activities. We anticipate for this project that services will be provided on a periodic or call-out basis. We understand that City of Coppell personnel will be scheduling our services,

and the number of hours and level of effort that we based our proposal on should be considered approximate since it is not based on a published construction schedule. If a schedule becomes available, we can review this schedule against our assumptions and be more definitive in our scoping.

We agree to provide a technician(s) to provide the construction materials field testing and observation services as follows. *To most effectively serve the client and facilitate the construction process, our services should be scheduled 24-hours in advance. We understand that the construction process incorporates a large degree of variability and as such, we will do our best to accommodate scheduling calls made on the same day as our services are needed but we cannot guarantee that we can satisfy service requests made after-hours or on the same day as the services are needed to be performed.*

Earthwork

Perform earthwork (soils) observation and testing services including:

- Obtain and perform laboratory moisture/density relations (standard proctor- ASTM or TxDOT methods) and soil classification tests (liquid limit, plastic limit, and percent finer than no. 200 sieve analysis) for each client-requested soil type.
- Perform Lime Series testing
- Monitor lime application spread rates, mixing, mellowing and compaction
- Perform in place sieve analysis on lime treated materials.
- Perform in-place moisture/density tests in accordance with the project and City specifications for utility backfill materials and concrete pavement subgrades

Reinforcing Steel

Reinforcing steel installation observation will typically be performed by the City of Coppell inspection staff. If requested, an engineering technician from our office will perform observation services on concrete reinforcing steel prior to concrete placement as follows. The following assumptions were made for estimating the quantities for our concrete reinforcing steel services:

- Perform reinforcing steel observation as requested and coordinated with City Inspectors to complement the City's reinforcing steel inspection.
- Reinforcing steel observations will be performed immediately prior to concrete placement and will not require a separate trip to the project site.

Cast-In-Place Concrete

Perform testing during concrete placement events including:

- Ambient air and concrete temperature field-measurement
- Total air content of concrete field-measurement
- Concrete slump field-measurement
- Cast four inch by eight inch concrete test cylinders at the rate of 5 cylinders for every 100 cubic yards of concrete or fraction thereof placed per day, or as directed by the City's representative.

The following assumptions were made for estimating the quantities for cast-in-place concrete:

- Pavement concrete placement will consist of pour events with a minimum of 50 cubic yards placed per event.
- Miscellaneous concrete pour events such as the sidewalk, sanitary sewer encasement, drive intersections, and pavement segments may consist of pour events with less than 50 cubic yards placed per event.

Project Administration, Dispatching, and Reporting

Kleinfelder's office staff, including administrators and supervisory technicians will assist in the management of the project as follows:

- Coordinate field and laboratory services with the client or their designated representative and dispatch our field staff as scheduled.
- Process, finalize, and distribute all field and laboratory test reports.

Project Management & Construction Meeting Attendance

A project manager from our office will manage this project and attend meetings as follows:

- Manage the project operation and services delivery, review and finalize field and laboratory reports, and coordinate with the client and contractor(s) throughout the duration of the project.
- Attend a pre-construction meeting.
- Attend project meetings as requested for the duration of the project.
- Provide general material engineering consultation as requested.

ESTIMATED FEES

Based on the general scope of work indicated above and take-off quantities, presumed construction procedures, phasing, and schedule, we estimate that the construction materials engineering and testing fees for this project will be approximately **\$91,105.00**. Included in Attachment A are the unit rates that will be used to invoice this project.

The invoicing for this project will use the attached Schedule of Fees and *the actual quantity of work performed*. The estimated total will not be exceeded without prior approval. The City of Coppell and Kleinfelder may subsequently agree in writing to provide additional services to be rendered under this agreement for additional, negotiated compensation.

COMPENSATION, TERMS AND CONDITIONS AND BASIS OF CHARGES

At the time of this proposal, a proposed construction schedule was not available for use in performing our fee estimate. We anticipate that our services will be scheduled on an on-call, as-needed basis by the City of Coppell, or their designated representative, in accordance with the contractor's sequencing of construction activities.

LIMITATIONS

Our work will be performed in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services are provided. Our conclusions, opinions and recommendations will be based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

Even with diligent monitoring, construction defects may occur. In all cases the contractor is solely responsible for the direction and the quality of the work, adherence to plans and specifications, and repair of defects.

This proposal is valid for a period of 45 days from the date of this proposal unless a longer period is specifically required in which case that time frame will apply. This proposal was prepared specifically for the client and its designated representatives and may not be provided to others without Kleinfelder's express permission.

TERMS OF ENGAGEMENT

Services will be provided in accordance with the existing Master Services Agreement between Kleinfelder and the City of Coppell (dated June 14, 2016). Please indicate your approval of the proposal by signing and returning the attached Work Order and returning to our office. A fully executed copy will be returned to you. Any modifications of the attached language must be accepted by both parties and may result in an increase in scope and compensation. Acceptance of the proposal indicates the City of Coppell's review and understanding of the scope of services, budget, and terms.

We appreciate the opportunity to provide you with this proposal and look forward to working with you on this project. If you have any questions or wish to discuss, please contact Joel Peters at 214.876.5559 or jdeters@kleinfelder.com. You can also reach us at the office at 972.868.5900.

Sincerely,

KLEINFELDER, INC.

Texas Registered Engineering Firm F-16438



Joel Peters, PE
Sr. Project Manager



Richard J. Hammerberg, PE
Sr. Project Manager

Attachment:

Fee Schedule
Work Order

**CITY OF COPPELL - AIRLINE DRIVE
CONSTRUCTION MATERIALS ENGINEERING AND TESTING SERVICES
PROJECT ESTIMATE AND SCHEDULE OF FEES**

SERVICES	Qty.	UNIT	RATE	TOTAL
A. Earthwork				
Field Technician	250.00	hourly	\$56.00	\$14,000.00
Field Density Test	240.00	each	\$26.00	\$6,240.00
In Place Sieve Analysis (Lime)	100.00	each	\$15.00	\$1,500.00
Trip Charge	80.00	trip	\$25.00	\$2,000.00
			Subtotal:	\$23,740.00
B. Concrete Testing & Inspection				
Field Technician	500.00	hourly	\$56.00	\$28,000.00
Concrete Cylinders	500.00	each	\$30.00	\$15,000.00
Trip Charge	80.00	trip	\$25.00	\$2,000.00
			Subtotal:	\$45,000.00
C. Lab Testing				
Standard Proctor, 4"	8.00	each	\$250.00	\$2,000.00
Atterberg Limits	8.00	each	\$80.00	\$640.00
Sieve Analysis -200	8.00	each	\$75.00	\$600.00
Lime Series (pH, Swell, Strength)	1.00	each	\$1,200.00	\$1,200.00
			Subtotal:	\$4,440.00
D. Project Management, Administration and Final Reporting				
Project Manager	60.00	hourly	\$155.00	\$9,300.00
Senior Geotechnical Engineer	6.00	hourly	\$250.00	\$1,500.00
Dispatch / Field Coordination	45.00	hourly	\$75.00	\$3,375.00
Administration / Clerical	60.00	hourly	\$60.00	\$3,600.00
Vehicle Charge	6.00	trip	\$25.00	\$150.00
			Subtotal:	\$17,925.00
			Budget Total:	\$91,105.00

Notes & Assumptions

- Overtime rates will be charged at 1.5 times standard hourly rate, and apply to hours worked before 7 AM and after 5 PM.
- A minimum one (1) hour is applied for field services.
- All vehicle charges account for a roundtrip originating at Kleinfelder's Irving, Texas office to the project site.
- This construction materials engineering and testing services estimate is based on estimated quantities of materials and typical and accepted construction procedures and schedule. At the time this estimate was prepared, neither a detailed construction schedule nor anticipated material quantities by the general contractor were available for our use.
- Additions or deletions to this work scope (estimated quantities) will be adjusted based on the established unit prices shown. This total estimate will not be exceeded without prior written approval of the client.

WORK ORDER

Issued Pursuant to Contract Agreement effective as of June 14, 2016 by and between City of Coppel (**Client**) and Kleinfelder, Inc. (**Kleinfelder**).

Client Name: City of Coppel

Kleinfelder Project No: TBD

Project Name: Airline Drive – Paving, Water, Sanitary Sewer and Drainage Improvements

Work Order Type: (Check One)

☒ Time-and-Materials

☐ Fixed-Price

Kleinfelder Office: Dallas, Texas

Subcontractor Reference No: COCP-13

Kleinfelder Contact Name: Joel Peters, PE

1. SCOPE OF WORK: See Proposal DFW20P114787
2. LOCATION/CLIENT FACILITY INVOLVED: Coppel, Texas
3. PERIOD OF PERFORMANCE: See Proposal DFW20P114787
4. AUTHORIZED FUNDING: \$91,105
5. SPECIAL PROVISIONS: See Proposal DFW20P114787

NOTICE TO PROCEED IS GIVEN ON (DATE): _____
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CLIENT:

KLEINFELDER:

By: _____

By: _____

Printed Name: _____

Printed Name:

Title:

Title:

Address:

Address: