

Work Authorization # 5
City of Woodcreek Construction Phase Services
KFA Project # TBD
City of Woodcreek General Engineering Services

This work authorization is made pursuant to the terms and conditions of the original Professional Service Agreement dated November 13, 2020 by and between K Friese & Associates, LLC and the City of Woodcreek

SERVICES PROVIDED BY K FRIESE & ASSOCIATES, INC.:

Woodcreek Residential Street Mill & Overlay Construction Phase Services for the City of Woodcreek: Refer to Attachment A for details.

DELIVERABLES: Refer to Attachments A for details.

This Agreement shall remain in effect until December 31, 2023 unless terminated as provided herein or extended by mutual agreement in writing. This Agreement is subject in all respects to the Terms and Conditions attached hereto and incorporated herein by reference.

BUDGET: Time and Material not to exceed **\$48,865.46**. Refer to Attachment B and C for budget details and breakdown.

CLIENT:

CITY OF WOODCREEK

K FRIESE + ASSOCIATES, LLC

SIGNED: _____

SIGNED: _____

TYPED NAME: Kevin Rule

TYPED NAME: Thomas M. Owens, P.E.

TITLE: City Manager

TITLE: Vice President

DATE: _____

DATE: _____

Attachments:
Attachment A
Attachment B
Attachment C

**ATTACHMENT A
SCOPE OF SERVICES
CITY OF WOODCREEK
PHASE II – CONSTRUCTION PHASE SERVICES**

WORK SUMMARY

This scope and fee are to provide Construction Phase Services for use on the Woodcreek Residential Street Mill & Overlay project.

The work to be performed shall consist of managing construction of specific operations and to provide inspection teams to perform various services, that include, the following:

- Evaluations of Conformity with Plans and Specifications
- Review and Approve Alternate Paving Applications
- Material Testing Services
- Final Walk-through and Punch List

PROJECT MANAGEMENT

1. Overall Project Management – KFA shall conduct internal meetings, schedule work, and coordinate on an ongoing basis with City staff and project team. This task includes the following items:
 - a. Invoice Administration
 - b. Compiling work products and deliverables
 - c. Coordinating subconsultant activities for quality and consistency of work.
 - d. Directing and conducting inspections to evaluate conformity with plans and specifications.
2. City of Woodcreek Meetings – Meetings will be conducted with the City as necessary to discuss construction progress and contract administration. -Two (2) meetings have been assumed for a construction progress update and final walk-through and punch list prior to release of final payment to the contractor.

PHASE II – CONSTRUCTION PHASE SERVICES

1. Attend and document site visits/construction progress meetings – a total of two (2) site visits and progress meetings are assumed for this proposal.
2. Evaluate conformity with plans, specifications, and special provisions.
3. Track all shop drawing submittals, reviews, and approvals.
4. Respond to RFIs – A total of three (3) RFIs are assumed.
5. Review and approve alternate paving applications – A total of three (3) alternate paving applications are assumed.
6. Prepare Change Order – A total of one (1) change order is assumed.
7. Review and approve pay applications – A total of two (2) pay applications are assumed.
8. Punch List – KFA will perform a final walk-through and prepare a punch list prior to release of final payment to the contractor.

SUBCONSULTANT MATERIAL TESTING SERVICES

**ATTACHMENT A
SCOPE OF SERVICES
CITY OF WOODCREEK
PHASE II – CONSTRUCTION PHASE SERVICES**

K Friese + Associates' subconsultant Holt Engineering, Inc. will perform the following services:

1. Laboratory Testing – Includes proctors, sieves, Atterberg limits, as specified or requested.
2. Moisture/Density Field Testing – Includes moisture/density testing on subgrade, select fill, roadway base, and utility trench backfill.
3. Visual Observation of Proof Rolling – Includes continuous observation of proof rolling, verification removal of soft or unstable material and verification that equipment used is per plans and specifications.
4. Asphalt Testing – Includes obtaining grab samples from the batch during each day's placement or as specified in the plans.

ASSUMPTIONS MADE FOR THIS PROPOSAL

1. Review, and submit to the City for approval, the alternate paving applications contingent on contractor determining incompatible roadway conditions. Alternate paving applications shall be submitted by contractor with corresponding TxDOT specifications for review by KFA and approval of the City.
2. Change Order may be needed to accommodate alternate paving applications.
3. Items shown for construction phase services and material testing services will be dependent on the Contractor and/or the City scheduling the work.

Attachment B

Fee Proposal														
Woodcreek Residential Street Mill & Overlay Project														
Firm Name:	K Friese + Associates, LLC													
Discipline Services Provided:	Construction Phase Rates													
Proposal Phase:	Phase II Construction Phase Services													
Personnel Title:	Senior Technical Advisor	Project Manager		Project Engineer		Construction Inspector		Admin Assistant		TOTAL				
Approved Loaded Hourly Rate:	\$290.00	\$265.00		\$185.00		\$115.00		\$105.00		TOTAL				
Phase	Task Name	Hrs.	\$	Hrs.	\$	Hrs.	\$	Hrs.	\$	Hrs.	\$	Hrs.	TOTAL \$	
Design Phase Services														
Project Management														
	Overall Project Management	0.00	\$0.00	16.00	\$4,240.00	0.00	\$0.00	0.00	\$0.00	4.00	\$420.00	20.00	\$4,660.00	
	City of Woodcreek Meetings (2 of 4 Total Meetings)	0.00	\$0.00	10.00	\$2,650.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	10.00	\$2,650.00	
Phase II - Construction Phase Services														
	Attend and Document Site Visits (2 of 4 Total Meetings)	0.00	\$0.00	0.00	\$0.00	10.00	\$1,850.00	0.00	\$0.00	0.00	\$0.00	10.00	\$1,850.00	
	Evaluate Conformity with Plans and Specifications	0.00	\$0.00	0.00	\$0.00	5.00	\$925.00	56.00	\$6,440.00	0.00	\$0.00	61.00	\$7,365.00	
	Track Submittals, Reviews, and Approvals	0.00	\$0.00	0.00	\$0.00	2.00	\$370.00	20.00	\$2,300.00	0.00	\$0.00	22.00	\$2,670.00	
	Respond to RFIs	0.00	\$0.00	0.00	\$0.00	2.00	\$370.00	2.00	\$230.00	0.00	\$0.00	4.00	\$600.00	
	Review and Approve Alternate Paving Applications	0.00	\$0.00	0.00	\$0.00	2.00	\$370.00	4.00	\$460.00	0.00	\$0.00	6.00	\$830.00	
	Prepare Change Order	0.00	\$0.00	0.00	\$0.00	4.00	\$740.00	2.00	\$230.00	0.00	\$0.00	6.00	\$970.00	
	Review and Approve Pay Applications	0.00	\$0.00	0.00	\$0.00	1.00	\$185.00	2.00	\$230.00	0.00	\$0.00	3.00	\$415.00	
	Punch List	0.00	\$0.00	0.00	\$0.00	4.00	\$740.00	4.00	\$460.00	0.00	\$0.00	8.00	\$1,200.00	
Reimbursable Expenses (Preconstruction Costs/Supplies)		Description, clarification, or justification (if necessary)									U/M	UNIT \$	QTY	TOTAL \$
	Travel	Government Rate: \$0.65 Round Trip Miles (San Antonio Office): 120 Miles									TRPS	\$78.00	20.0	\$1,560.00
Reimbursable Expenses Subtotal													\$1,560.00	
Task Subtotal		0.00	\$0.00	0.00	\$0.00	20.00	\$5,550.00	90.00	\$10,350.00	0.00	\$420.00	110.00	\$24,770.00	
Subconsultant Material Testing														
	Laboratory Testing of Soils	See Attachment C for Subconsultant Cost Breakdown											\$2,313.00	
	Moisture Density Field Testing												\$10,450.00	
	Asphalt Testing												\$10,260.00	
	Engineering Time												\$600.00	
	Administration Costs												\$472.46	
Task Subtotal													\$24,095.46	
PROPOSAL TOTAL													\$48,865.46	

GEOTECHNICAL ENGINEERING
DRILLING & SAMPLING
FOUNDATION DESIGN

HOLT
ENGINEERING, INC.

CONSTRUCTION OBSERVATION
LABORATORY TESTING
MATERIALS TESTING

7 September 2023

K Friese Associates
1120 S. 360 Highway CityView 2, Ste 200
Austin, Texas 78676

Attn: Jeremiah Davis

Re: Cost Estimate for Materials Testing and Observation
Woodcreek Residential Street Mill & Overlay
Various Locations
Woodcreek, Texas

Dear Mr. Davis

Thank you for the opportunity to provide a cost estimate for the Materials Testing and Observation at the above referenced project. This estimate is based on project plans and our firm's unit fee schedule. The scope of our services includes the items below.

Scope of Services

- Laboratory Testing – Includes proctors, sieves, Atterberg limits, as per specified or requested. Samples of subgrade and each type of backfill material will be picked up on-site or from designated borrow sites and transported to the lab for testing. Please allow a minimum of 7 working days for test results.
- Moisture/Density Field Testing – Includes moisture/density testing on subgrade, select fill, roadway base, and utility trench backfill. Tests will be made on each lift of fill prior to placement of any subsequent lifts. The technician will verify that appropriate proctor is being used and that material used as fill (including select fill or roadway base) meets any written requirements in the plans and specifications. For lime stabilized subgrades, field sieves are performed to ensure gradation requirements are met.
- Visual Observation of Proof Rolling – Includes continuous observation of proof rolling, verification of removal of soft or unstable material and verification that equipment used is per plans and specifications.
- Asphalt Testing – Includes obtaining grab samples from the batch during each day's placement or as specified in the plans. Bag samples will be transported to an outside accredited lab for testing extraction, gradation, specific gravity and HVEEM stability. Our firm will cut cores within the following week and verify thickness and bulk specific gravity.

Mr. Davis
Woodcreek Residential Street Mill & Overlay

September 7, 2023

Written reports will be provided that will include work performed, date, time and location of all tests and other pertinent information. Any test failures will be reported to the Contractor/Owner within 24 hours. All testing reports will be reviewed and signed by a qualified project manager.

Attached is an itemized cost estimate for the materials testing services listed above. We anticipate final costs to range from approximately \$ 23,000.00 to \$26,000.00 however, the final cost may be lower or higher depending on the Contractor's work schedules, the number of trips to the site, and quantity of tests requested. Overtime (weekends, holidays, before 6 am, after 6 pm and greater than 8 hours per day) will be charged at 1.5 times the hourly rate.

It should be noted our testing and observations are conducted on a periodic basis on an "as call as needed" basis. With the exception of monitoring pier hole drilling on a continuous basis, a technician will not be on the jobsite full time. Our testing and observation services will be dependent on the Contractor and/or Owner scheduling the work. We can fulfill the COA Special Inspection check-list, but we will need to be contacted as the various items in the check-list are being constructed. All on-site testing services must be scheduled via telephone with the office dispatch or through Jesse Hamrin or another designated on-call employee. In-office dispatch is available Monday through Friday 7:00 AM - 5:00 PM at 512-447-8166. Onsite scheduling, cancellations, changes or other needs made via text message, voice mail, email, fax or other methods may not be honored.

If you should have any questions regarding this cost estimate, please do not hesitate to call.

Sincerely,


Maxwell Rizk
CMT Department Manager

Client Information and Acceptance: *(To be completed by authorized representative and responsible billing party)*

The undersigned agrees to the above scope of work, conditions and is responsible for payment.

Signature: _____ Date: _____

Printed Name: _____ Title: _____

Company Name: _____ Phone: _____

Email Address: _____ Alt. Phone/Fax: _____

Mailing Address: _____ City/State/Zip: _____

Billing Address: _____ City/State/Zip: _____

*We appreciate the opportunity to submit this proposal and look forward to working with you on this project.
Please call us if we can be of any additional assistance.*

Enclosures: Cost Estimate / Unit Fee Schedule / Project Contact List

Mr. Davis
Woodcreek Residential Street Mill & Overlay

September 7, 2023

THE ATTACHED COST ESTIMATE IS BASED ON THE FOLLOWING CONDITIONS:

1. The attached cost estimate will change based on changes or alterations to the scope of services. Additional costs may be incurred for testing that fails or does not meet specifications and must be re-tested, consultation with the Architect, Structural Engineer, and/or Contractor, Client or other representative, or for other changes or alterations to the scope of services that were not disclosed or presented at the time of this cost estimate being issued.
2. Items and costs provided in the cost estimate may be moved between the various work elements to accommodate the overall project budget.
3. Payment is due within 30 days Net from date of invoice. It is the Client's responsibility to report billing errors immediately upon receipt. Holt Engineering, Inc. is not responsible for billing errors not reported within 30 days of billing.
4. Scheduling, canceling and dispatch for on-site testing is only accepted/processed via phone with a company employee. Our office phone lines are staffed from 7:00 AM to 5:00 PM at 512-447-8166 Monday through Friday with exception for some Holidays. In the event scheduling must be done outside of these hours, our Project Manager, Jesse Hamrin, is available at 512-994-9366. Scheduling requests, changes, or cancelations will not be accepted via text message, voice mail, email, standard mail, fax or other means.
5. A minimum of 3 hours will be charged per technician visit to site. Cancellations not made within 4 hours of a scheduled test will be billed 3 hours of technician time and trip/mileage charge.
6. Client understands that testing and observation is not continuous or exhaustive. Our testing and observation services are meant to aid in reducing, not eliminating, project risk. Holt is not responsible for the Contractor's means and methods, quality and completeness of work or adherence to the project documents.
7. If lot fill compaction testing is requested, a separate Lot Fill Agreement for Testing Lot Fills will be required. We have attached this document for your authorization.

HOLT ENGINEERING, INC.

2220 BARTON SKYWAY - AUSTIN, TEXAS 78704
512-447-8166 PHONE / 512-447-0852 FAX

COST ESTIMATE

Date: September 7, 2023
Project: Woodcreek Residential Street Mill & Overlay
Woodcreek, Texas 78676

Client: K Friese Associates
1120 S. 360 Highway CityView 2, Ste 10
Austin, Texas 78746

Contact: Mr. Jeremiah Davis

Cost Estimate for Materials Testing, Inspection, and Observation Services

	<i>Quantity</i>	<i>Cost per Each</i>	<i>Total Cost:</i>
Laboratory Testing of Soils			
Moisture Density Relationship:	3	\$265.00	\$795.00
Atterberg Limits	3	\$105.00	\$315.00
Sieve Analysis	3	\$125.00	\$375.00
Minus 200 Sieves	3	\$72.00	\$216.00
Technician Time - Regular Hours	6	\$85.00	\$510.00
Miles	120	\$0.85	\$102.00
<i>Subtotal: Laboratory Testing</i>			\$2,313.00
Moisture Density Field Testing: Technician with Nuclear Gauge			
Moisture Density Tests (Single Test)	100	\$28.00	\$2,800.00
Technician Time - Regular Hours	75	\$85.00	\$6,375.00
Miles	1500	\$0.85	\$1,275.00
<i>Subtotal: Moisture Density Testing</i>			\$10,450.00
Asphalt Testing:			
Coring	10	\$130.00	\$1,300.00
Extraction/Gradeation	10	\$310.00	\$3,100.00
Specific Gravity	10	\$100.00	\$1,000.00
HVEEM Stability	10	\$200.00	\$2,000.00
Molding Specimens	10	\$110.00	\$1,100.00
Laboratory Density	10	\$74.00	\$740.00
Technician Time - Regular Hours	12	\$85.00	\$1,020.00
Miles	120	\$0.85	\$102.00
<i>Subtotal: Asphalt Testing</i>			\$10,260.00
Engineering Time:			
Engineering Time - Regular Hours	3	\$200.00	\$600.00
<i>Subtotal: Engineering Time</i>			\$600.00

HOLT ENGINEERING, INC.

2220 BARTON SKYWAY - AUSTIN, TEXAS 78704
512-447-8166 PHONE / 512-447-0852 FAX

Administration Costs:

Administration Fee - 2% of Monthly Invoice	\$23,623.00	2.00%	\$472.46
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<i>Subtotal: Administrative Fees</i>			\$472.46
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Total Estimate Amount for Services Indicated:			\$24,095.46
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PROJECT CONTACT LIST

Please provide us with a list of all recipients for testing reports. Please help us go paperless and choose email as the form of contact where available.

1. **Company Name:** _____
Contact Name: _____
E-Mail Add.: _____
Mail Address: _____
City, State, Zip: _____
Phone/Fax: _____

2. **Company Name:** _____
Contact Name: _____
E-Mail Add.: _____
Mail Address: _____
City, State, Zip: _____
Phone/Fax: _____

3. **Company Name:** _____
Contact Name: _____
E-Mail Add.: _____
Mail Address: _____
City, State, Zip: _____
Phone/Fax: _____

4. **Company Name:** _____
Contact Name: _____
E-Mail Add.: _____
Mail Address: _____
City, State, Zip: _____
Phone/Fax: _____

FEE SCHEDULE**MATERIALS TESTING AND INSPECTION****2023****Laboratory Testing (Soils):**

Moisture/Density Relationship (Proctor)	\$ 265.00/ea.
Permeability Test.....	\$ 800.00/ea.
Hydrometer.....	\$ 400.00/ea.
Atterberg Limits	\$ 105.00/ea.
Sieve Analysis (Dry Gradation up to 5 sieves).....	\$ 125.00/ea.
Additional Sieves	\$ 23.00/ea.
Field Gradation of Lime Soil (1.75, 0.75, No 4 Sieve)	\$ 83.00/ea.
Minus 200.....	\$ 72.00/ea.
Lime Series Curve (Letter w/Engineer Seal).....	\$ 500.00/ea.
Specific Gravity.....	\$ 165.00/ea.
pH.....	\$ 50.00/ea.
Organic Content (Loss of Ignition)	\$ 50.00/ea.
Sulfate Testing.....	\$ 220.00/ea.

Field Density Testing:

Technician Rate (3 Hour Minimum Charge*).....	\$ 85.00/hr.
Density Tests w/Nuclear Gauge	\$ 28.00/ea.

Pier Inspection:

Technician Rate (3 Hour Minimum Charge*).....	\$ 85.00/hr.
Project Manager Rate	\$ 130.00/hr.
Engineer Rate	\$ 200.00/hr.

Concrete Testing:

Technician Rate (3 Hour Minimum Charge*).....	\$ 85.00/hr.
Project Manager Rate	\$ 130.00/hr.
Engineer Rate	\$ 200.00/hr.
Compression Test Cylinders (6 x 12).....	\$ 35.00/ea.
Compression Test Cylinders (4 x 8).....	\$ 30.00/ea.
Mortar Cube	\$ 30.00/ea.
Unit Weight	\$ 75.00/ea.
Grout Samples (Masonry)	\$ 30.00/ea.
Concrete Cores	\$ 130.00/ea.

Structural Steel Inspection:

AWS Certified Welding Inspector	\$ 135.00/hr.
AWS - CAWI.....	\$ 100.00/hr.
AWS - CWI, NACE Level III	\$ 220.00/hr.
Ultrasonic Testing	\$ Quote/Job
HILTI Ferrosan.....	\$ Quote/Job
Liquid Penetrant	\$ Quote/Job
Radiographic Testing (X-ray).....	\$ Quote/Job
Plant Inspection	Expenses+ \$ 220.00/hr.

Asphalt Testing:

Coring (Minimum 3 Ea.).....	\$ 130.00/ea.
Extraction/Gradation	\$ 310.00/ea.
Specific Gravity.....	\$ 100.00/ea.
HVEEM Stability (Set of 3).....	\$ 200.00/ea.
Molding Specimens (Set of 3).....	\$ 110.00/ea.
Laboratory Density (Set of 3).....	\$ 95.00/ea.
Technician Rate (3 Hour Minimum Charge*).....	\$ 85.00/hr.

Miscellaneous:

Overtime is time in excess of 8 hours/day and before 6 A.M. and after 6 P.M.

Weekends, overtime, and holidays are charged at 1.5 times hourly rate.

Administration Costs2% of Monthly Services

Mileage.....\$ 0.85/mi.

***WALK-IN'S – Additional 10% Charge**

****Note: 4-Hour Minimum Charge Outside Austin Area**