PO # (After Authorization)	131582

LEE'S SUMMIT
MISSOURI

December 1, 2022

Geotechnology, LLC
Attn: Steve Damron
5055 Antioch Road
Overland Park, Kansas 66203

RE: **Memorandum of Authorization for Services for Materials Testing**
Fire Station 4 & Fire Station 5
RFQ No. 2022-046, On-Call Agreement Geotechnical Engineering, Materials Testing & Inspection Services, dated June 1, 2022

Dear Steve:

The City of Lee's Summit hereby authorizes **Geotechnology** to proceed with the services as outlined in the scope of services dated November 22, 2022, attached hereto as **Exhibit A.** Station 4 & Station 5

The project information is as follows:

Department Authorizing Work:	Public Works Engineering		
Project Name:	Fire Station 4	&	Fire Station 5
Project No.:	757		828
Activity No. and Accounting Unit No.	256.74.750.444		361.74.750.444
Amount of this Authorization:	$25,000.00		$25,000.00
City Project Manager (point of contact):	Rodney Hudson		
Required Delivery Date:	December 7th, 2022		

The terms and conditions of this Work will be in accordance with the On-Call Agreement for Geotechnical Engineering, Materials Testing and Inspection Services awarded under RFQ No. 2022-046. The City agrees to make payments in accordance with Exhibit C of the above-referenced Contract, for an amount not to exceed the estimated fee of your proposal.

Please note that failure to respond timely to an on-site request authorized in Exhibit A may result in that service being performed by another firm.

Please contact the designated Project Manager at (816) 969-1800 if you have any questions.

Sincerely,

Michael Park
Director of Public Works

GEOTECHNOLOGY
A Universal Engineering Sciences Company

Exhibit A
Station - 4

Via email: Rodney.hudson@cityofls.net

November 22, 2022

Mr. Rodney Hudson
City of Lee's Summit
220 SE Green Street
Lee's Summit, Missouri 64063

Re: Proposal for Construction Observation and Materials Testing Services
Lee's Summit Fire Station No. 4
5031 NE Lakewood Way
Lee's Summit, Missouri
Geotechnology Proposal No. P040917.04

Dear Mr. Hudson:

In response to your request, Geotechnology, LLC (Geotechnology) is pleased to submit this proposal to perform construction observation and materials testing services for the referenced project. The scope of services identified within this proposal was developed from your November 11, 2022 request for proposal and our review of the project plans and specifications dated October 19, 2022.

1.0 PROJECT INFORMATION

The project will consist of construction of a two-story building with a mezzanine over the apparatus bay. Shallow foundations will support the structural masonry, steel, and light-gauge steel building. Cuts and fills less than 2 feet in thickness are planned. Site improvements include new utilities and Portland cement concrete paving.

2.0 SCOPE OF SERVICES

Our services will be provided by qualified field representatives on an as-requested basis during earthwork, building, and pavement construction operations. The purpose of our services is to enhance compliance with the general intent of the project plans and specifications. Our understanding of the scope of services for this project includes:

- **Structural Fill** – Development of the site in general accordance with the recommendations presented in the geotechnical report[1] will be observed. Primarily, these services include observation of the removal of unsuitable materials (including topsoil) and observation of proofrolling of exposed subgrades prior to placing fill.

  Soils for use as fill will be visually classified and standard Proctor (moisture-density relationship) and Atterberg limits tests will be performed on these soils. The lift thickness, dry density, and moisture content of the fill placed in the building pad and parking areas will be periodically observed and tested.

[1] *Geotechnical Engineering Report, Fire Station #4 – Site #1, Lee's Summit, Missouri;* Prepared for GLMV Architecture by Alpha-Omega Geotech, Inc., Report No. AOG 21-126E-1 dated August 10, 2021.

- **Backfill** – Soils for backfill will be visually classified and standard Proctor (moisture-density relationship) and Atterberg Limits tests will be performed on these soils. The lift thickness, dry density, and moisture content of the backfill placed within segments of utility trenches will be periodically observed and tested.

- **Pavement Subgrades** – Subgrades within the proposed pavement areas will be evaluated with respect to stability and moisture content. We propose to reevaluate subgrades if site or weather conditions change prior to paving.

- **Foundation Bearing Materials** – The soils present in the base of building foundation excavations will be evaluated relative to the allowable design bearing pressure.

- **Reinforced Concrete** – Placement of the reinforcing steel in structural elements of the building will be observed for size, spacing, splice length, cleanliness, clearance, coverage, grade and quantity prior to placing concrete.

  Field tests will be performed and test specimens will be cast during placement of concrete in building structures and pavements. The field tests performed will include slump, air content and temperature. Following the initial field cure, test specimens will be transported to our laboratory for moist curing and compressive strength testing.

- **Structural Masonry** – Placement of grout and reinforcing steel bars in the walls will be observed on a part-time basis. Compression tests will be performed on samples of grout and block prisms obtained during wall construction. During our site visits to observe masonry grouting, we will observe mortar mixing and proportioning, general masonry construction practice, and protection of masonry construction materials from the elements.

- **Structural Steel** – Primary structural steel connections between beams, columns, joists, metal deck and shear studs will be observed on a periodic basis. Observation of screen wall framing, stairs, railings, cold formed metal framing and other secondary member connections are beyond the scope of this proposal.

  Bolted connections will be observed in accordance with AISC specifications and the 2009 edition of "Specification for Structural Joints Using High-Strength Bolts."

  Welded connections will be observed in accordance with AWS and/or AISC standards and specifications.

- **Penetration and Joint Firestopping** – The installation of penetration and joint firestopping will be observed for conformance with the project documents.

- **Project Management** – Our project manager will supervise and direct our field personnel, develop bi-weekly progress reports and monitor costs for actual services provided versus the contract budget. Our project engineer will review and sign the bi-weekly report and provide technical assistance as needed.

3.0 ASSUMPTIONS

In preparing our proposal we have assumed the following:

- 100 to 150 feet of continuous footing will be placed per day;
- approximately 400 square feet of masonry wall will be constructed day;
- the EIFS will be self-draining and not require inspection;
- Steel suppliers have certified fabrication shops that will not require independent third-party inspection.

Deviations from these or any other assumptions outlined in the scope of work for this proposal will result in additional charges to the client. Services other than those indicated herein will be performed on a time and materials basis in accordance with the rates outlined in the attached unit fee schedule.

4.0 PROJECT DELIVERABLES

Geotechnology will provide preliminary copies of our field observation reports to the contractor's field representative via electronic mail. These reports will describe the testing and/or construction observation services provided during the site visit. Progress reports summarizing the results of our observations and testing will be prepared on a bi-weekly basis. Unresolved variances from the requirements stipulated in the project documents will be consolidated in a list format at the end of the report. Only the bi-weekly special inspection summary reports will be stamped by a licensed engineer.

The bi-weekly summary reports and the results of tests conducted in our laboratory will be distributed electronically. If you request that copies of our reports be distributed to other parties, please provide a list of the recipients and contact information. Certification or warranty letters of the contractors' work will not be provided.

5.0 SCHEDULE AND FEES

Our services are offered in accordance with the accompanying Terms for Geotechnology's Services (Terms). Based on the scope of work described in this proposal, we have estimated a budget of **Twenty-Two Thousand Nine Hundred Dollars ($22,900.00)** for our services.

The quantities of tests and durations of site visits indicated on the attached Fee Estimate were based upon reasonable assumptions about scheduling and manpower from our experience with projects of a similar nature and were not developed from a detailed contactor's schedule. An allowance of overtime labor may have been included, but we have assumed that the majority of the work will be conducted Monday through Friday during normal business hours (7:00 AM to 5:00 PM). Personnel services are billed on a portal-to-portal basis, and services in excess of 8 hours per day, or performed on weekends and holidays, will be invoiced at an overtime rate of 1.5 multiplied by the regular hourly rate. A differential of 20% will be applied to all night shifts that begin at/after 7 p.m. A minimum of 8 hours per shift will be charged per employee for night shift work.

This proposal and fee estimate have been prepared using Geotechnology's standard fee schedule and with the assumption that Geotechnology's Terms will be used as the contract mechanism. Geotechnology reserves the right to revise this proposal and increase our fee estimate, at any time, if our Terms are not used or if any flow down and/or contract provisions are

required by Client or Owner to conform with any local, state or federal wage act requirements, including but not limited to the Davis Bacon Act, as Amended, the McNamara-O'Hara Service Contract Act, etc., the required use of union labor, or for any required safety, security, vehicle, drug and alcohol testing, or any third party payment fees, or other requirements not specified in the Client's request for proposal or not defined in Geotechnology's scope of services.

6.0 REASONS TO SELECT GEOTECHNOLOGY

Geotechnology is proud to offer our services to you on this project. We believe that our services provide significant value to you because:

- we bring a wealth of project experience on large site developments, parking garages, high-rise buildings, retail complexes, and infrastructure projects;
- our well-trained employees have certifications in each service line that we offer;
- we have a comprehensive internal auditing process that challenges us to provide consistent level of service;
- our laboratory is certified by AMRL and CCRL, and validated by the U.S. Army Corps of Engineers.

7.0 SCHEDULING

Scheduling of services will be the responsibility of client or the contractor. Geotechnology project managers might contact client or contractor representatives on occasion to discuss the upcoming project requirements, but this does not relieve client or contractor from the responsibility for scheduling our services. Please provide as much advanced notice as possible, but not less than 24 hours. We will attempt to accommodate service requests with less than 24 hours' notice, but cannot guarantee availability at the prescribed time.

8.0 LIMITATIONS

The Fee Estimate generated was based on our review of the project plans and specifications, and our experience and knowledge regarding construction projects in the geographic area of the site. Our estimate is based on a number of assumptions including construction schedule and completion time. In addition, Geotechnology has no control over means and methods utilized by the contractor.

The contractor will be notified when conditions that appear to be inconsistent with the project requirements are observed. Suggestions might be made for remedial measures, but these suggestions are not directives and should not be perceived as such. Geotechnology will not have stop-work authority for the project.

Construction materials and test results can fluctuate. Consequently, even with careful observation and testing, it cannot be said that all parts of the construction comply with the project requirements. A higher degree of confidence is inherent with full-time versus intermittent observation. In either case, a guarantee of the contractor's work is not provided.

9.0 AUTHORIZATION

Our services will be provided in accordance with the previously agreed upon terms described in P040917.04 between the City of Lee's Summit and Geotechnology. Please authorize our services by signing below.

Geotechnology is authorized to provide the construction materials testing services as discussed herein.

Signature: _____

Name: _____

Title: _____

Date: _____

* * * * * * *

We appreciate the opportunity to submit this proposal for the referenced project and look forward to hearing from you soon. If you have a question or comment concerning this proposal, or if we may be of any other service to you, please do not hesitate to contact us.

Respectfully submitted,

GEOTECHNOLOGY, LLC

Steve Damron
CMT Department Manager

Enclosed: Fee Estimate

GEOTECHNOLOGY
A Universal Engineering Sciences Company

City of Lee's Summit
November 22, 2021

P040917.04

Lee's Summit Fire Station No. 4
Fee Estimate
Geotechnology, LLC

Project Setup	**Code**	**#**	**Units**	**#**	**Units**	**Unit Cost**	**Units**	**Totals**
Set up	P002	1	lump sum			$210.00	lump sum	$210.00
							Subtotal	$210.00

Soils and/or Aggregates Testing/Observation	**Code**	**#**	**Units**	**#**	**Units**	**Unit Cost**	**Units**	**Totals**
- Labor								
Trips - Zone 6	Zone 6	11	trips			$61.00	per trip	$671.00
Field Representative, Level 1 - Mass Grading	105	1	days	3	hours/day	$60.00	per hour	$180.00
Field Representative, Level 1 - Building LVC	105	2	days	3	hours/day	$60.00	per hour	$360.00
Field Representative, Level 1 - Pavement LVC	105	1	days	3	hours/day	$60.00	per hour	$180.00
Field Representative, Level 1 - Utility Trench Backfill	105	4	days	3	hours/day	$60.00	per hour	$720.00
Field Representative, Level 1 - Subgrade Evaluation	105	2	days	3	hours/day	$60.00	per hour	$360.00
Field Representative - Sample Pick-ups, Level 1	105	1	days	2	hours/day	$60.00	per hour	$120.00
- Equipment								
Nuclear Densometer	FT100	8	days			$37.00	per day	$296.00
- Laboratory								
Atterberg Limits, One Point (ASTM D 4318)	L111	1	tests			$68.00	per test	$68.00
Standard Proctor, 6" (ASTM D 698)	L201	1	tests			$225.00	per test	$225.00
Standard Proctor, 4" (ASTM D 698)	L202	1	tests			$195.00	per test	$195.00
Proctor Admixture	LC420	1	tests			$47.00	per test	$47.00
							Subtotal	$3,422.00

Foundation Observation/Testing	**Code**	**#**	**Units**	**#**	**Units**	**Unit Cost**	**Units**	**Totals**
- Labor								
Trips - Zone 6	Zone 6	9	trips			$61.00	per trip	$549.00
Field Representative, Level 2	106	7	days	3	hours/day	$68.00	per hour	$1,428.00
Field Representative - Cylinder Pick-ups, Level 1	105	1	days	1.5	hours/day	$60.00	per hour	$90.00
Overtime, Field Representative - Cylinder Pick-ups, Level 1	105	1	days	1.5	hours/day	$90.00	per hour	$135.00
- Laboratory								
Compressive Strength of Cylinders 4" x 8" (ASTM C 39)	LC020	7	sets	4	cylinders/set	$19.00	per cylinder	$532.00
							Subtotal	$2,734.00

Concrete Observation/Testing	**Code**	**#**	**Units**	**#**	**Units**	**Unit Cost**	**Units**	**Totals**
- Labor								
Trips - Zone 6	Zone 6	20	trips			$61.00	per trip	$1,220.00
Field Representative, Level 1 - Interior Slab-on-Grade	105	3	days	3	hours/day	$60.00	per hour	$540.00
Field Representative, Level 1 - Patio	105	1	days	3	hours/day	$60.00	per hour	$180.00
Field Representative, Level 1 - Slab-on-Deck	105	1	days	3	hours/day	$60.00	per hour	$180.00
Field Representative, Level 1 - Storm Shelter Lid	105	1	days	3	hours/day	$60.00	per hour	$180.00
Field Representative, Level 1 - Pavement	105	4	days	3	hours/day	$60.00	per hour	$720.00
Field Representative, Level 1 - Sidewalk	105	3	days	3	hours/day	$60.00	per hour	$540.00
Field Representative, Level 1 - Curb	105	1	days	3	hours/day	$60.00	per hour	$180.00
Field Representative - Cylinder Pick-ups, Level 1	105	4	days	1.5	hours/day	$60.00	per hour	$360.00
Overtime, Field Representative - Cylinder Pick-ups, Level 1	105	2	days	1.5	hours/day	$90.00	per hour	$270.00
- Laboratory								
Compressive Strength of Cylinders 4" x 8" (ASTM C 39)	LC020	19	sets	4	cylinders/set	$19.00	per cylinder	$1,444.00
							Subtotal	$5,814.00

Field Structural Steel Observation/Testing	**Code**	**#**	**Units**	**#**	**Units**	**Unit Cost**	**Units**	**Totals**
- Labor								
Trips - Zone 6	Zone 6	6	trips			$61.00	per trip	$366.00
Senior Field Representative	104	6	days	4	hours/day	$95.00	per hour	$2,280.00
- Equipment								
Skidmore Wilhelm (Bolt Installation Verification)	FT201	1	days			$37.00	per day	$37.00
							Subtotal	$2,683.00

Structural Masonry Testing/Observation	**Code**	**#**	**Units**	**#**	**Units**	**Unit Cost**	**Units**	**Totals**
- Labor								
Trips - Zone 6	Zone 6	16	trips			$61.00	per trip	$976.00
Field Representative, Level 3	107	16	days	3	hours/day	$74.00	per hour	$3,552.00
- Laboratory								
Compressive Strength of Grout (ASTM C 1019)	LC510	2	sets	3	prisms/set	$37.00	per prism	$222.00
Compressive Strength of Masonry Prisms (ASTM C 1314)*	LC533	2	sets	3	prisms/set	$126.00	per prism	$756.00
							Subtotal	$5,506.00

Fire-Resistive Materials Testing	**Code**	**#**	**Units**	**#**	**Units**	**Unit Cost**	**Units**	**Totals**
- Labor								
Trips - Zone 6	Zone 6	3	trips			$61.00	per trip	$183.00
Field Representative, Senior Field Representative	104	3	days	3	hours/day	$95.00	per hour	$855.00

CMT Consulting/Project Management	Code	#	Units	#	Units	Unit Cost	Units	Totals
- Labor								
Trips - Zone 6	Zone 6	2	trips			$61.00	per trip	$122.00
Project Manager	26	15	hours			$140.00	per hour	$2,100.00
Project Administration	59	5	hours			$68.00	per hour	$340.00
							Subtotal	$2,562.00
							TOTAL	**$22,931.00**

The following items were not included in this Fee Estimate:

1. Excessive retests or reinspections of repaired or reworked conditions previously indicated as deficient.
2. Excessive stand-by time on site due to circumstances beyond the control of Geotechnology, LLC.
3. Extra or additional services beyond those identified within this proposal.
4. Weekend, holiday, and overtime work in excess of the allowances contained herein.

Note: *Hourly rates are portal-to-portal. All durations are rounded to the nearest quarter-hour. All personnel services conducted in the field are subject to a 3-hour minimum (cylinder sample pickups are subject to a 1-hour minimum).*

Exhibit A
Station - 5

GEOTECHNOLOGY
A Universal Engineering Sciences Company

Via email: Rodney.hudson@cityofls.net

November 22, 2022

Mr. Rodney Hudson
City of Lee's Summit
220 SE Green Street
Lee's Summit, Missouri 64063

Re: Proposal for Construction Observation and Materials Testing Services
Lee's Summit Fire Station No. 5
801 Missouri Highway 150
Lee's Summit, Missouri
Geotechnology Proposal No. P040917.05

Dear Mr. Hudson:

In response to your request, Geotechnology, LLC (Geotechnology) is pleased to submit this proposal to perform construction observation and materials testing services for the referenced project. The scope of services identified within this proposal was developed from your November 11, 2022 request for proposal and our review of the project plans and specifications dated October 27, 2022.

1.0 PROJECT INFORMATION

The project will consist of construction of a two-story building with a mezzanine over the apparatus bay. Shallow foundations will support the structural masonry, steel, and light-gauge steel building. Cuts and fills less than 2 feet in thickness are planned. Site improvements include new utilities, site retaining walls, and Portland cement concrete paving.

2.0 SCOPE OF SERVICES

Our services will be provided by qualified field representatives on an as-requested basis during earthwork, building, and pavement construction operations. The purpose of our services is to enhance compliance with the general intent of the project plans and specifications. Our understanding of the scope of services for this project includes:

- **Structural Fill** – Development of the site in general accordance with the recommendations presented in the geotechnical report[1] will be observed. Primarily, these services include observation of the removal of unsuitable materials (including topsoil) and observation of proofrolling of exposed subgrades prior to placing fill.

  Soils for use as fill will be visually classified and standard Proctor (moisture-density relationship) and Atterberg limits tests will be performed on these soils. The lift thickness, dry density, and moisture content of the fill placed in the building pad and parking areas will be periodically observed and tested.

[1] *Geotechnical Engineering Report, Fire Station #4 – Site #1, Lee's Summit, Missouri;* Prepared for GLMV Architecture by Alpha-Omega Geotech, Inc., Report No. AOG 21-126E-1 dated August 10, 2021.

- **Backfill** – Soils for backfill will be visually classified and standard Proctor (moisture-density relationship) and Atterberg Limits tests will be performed on these soils. The lift thickness, dry density, and moisture content of the backfill placed within segments of utility trenches will be periodically observed and tested.

- **Pavement Subgrades** – Subgrades within the proposed pavement areas will be evaluated with respect to stability and moisture content. We propose to reevaluate subgrades if site or weather conditions change prior to paving.

- **Foundation Bearing Materials** – The soils present in the base of building foundation excavations will be evaluated relative to the allowable design bearing pressure.

- **Reinforced Concrete** – Placement of the reinforcing steel in structural elements of the building will be observed for size, spacing, splice length, cleanliness, clearance, coverage, grade and quantity prior to placing concrete.

  Field tests will be performed and test specimens will be cast during placement of concrete in building structures and pavements. The field tests performed will include slump, air content and temperature. Following the initial field cure, test specimens will be transported to our laboratory for moist curing and compressive strength testing.

- **Structural Masonry** – Placement of grout and reinforcing steel bars in the walls will be observed on a part-time basis. Compression tests will be performed on samples of grout and block prisms obtained during wall construction. During our site visits to observe masonry grouting, we will observe mortar mixing and proportioning, general masonry construction practice, and protection of masonry construction materials from the elements.

- **Structural Steel** – Primary structural steel connections between beams, columns, joists, metal deck and shear studs will be observed on a periodic basis. Observation of screen wall framing, stairs, railings, cold formed metal framing and other secondary member connections are beyond the scope of this proposal.

  Bolted connections will be observed in accordance with AISC specifications and the 2009 edition of "Specification for Structural Joints Using High-Strength Bolts."

  Welded connections will be observed in accordance with AWS and/or AISC standards and specifications.

- **Penetration and Joint Firestopping** – The installation of penetration and joint firestopping will be observed for conformance with the project documents.

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3.0 ASSUMPTIONS

In preparing our proposal we have assumed the following:

- 100 to 150 feet of continuous footing will be placed per day;
- approximately 400 square feet of masonry wall will be constructed per day;
- the EIFS will be self-draining and not require inspection
- Steel and precast concrete suppliers have certified fabrication shops that will not require independent third-party inspection.

Deviations from these or any other assumptions outlined in the scope of work for this proposal will result in additional charges to the client. Services other than those indicated herein will be performed on a time and materials basis in accordance with the rates outlined in the attached unit fee schedule.

4.0 PROJECT DELIVERABLES

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5.0 SCHEDULE AND FEES

Our services are offered in accordance with the accompanying Terms for Geotechnology's Services (Terms). Based on the scope of work described in this proposal, we have estimated a budget of **Twenty-Four Thousand Nine Hundred Dollars ($24,900.00)** for our services.

The quantities of tests and durations of site visits indicated on the attached Fee Estimate were based upon reasonable assumptions about scheduling and manpower from our experience with projects of a similar nature and were not developed from a detailed contactor's schedule. An allowance of overtime labor may have been included, but we have assumed that the majority of the work will be conducted Monday through Friday during normal business hours (7:00 AM to 5:00 PM). Personnel services are billed on a portal-to-portal basis, and services in excess of 8 hours per day, or performed on weekends and holidays, will be invoiced at an overtime rate of 1.5 multiplied by the regular hourly rate. A differential of 20% will be applied to all night shifts that begin at/after 7 p.m. A minimum of 8 hours per shift will be charged per employee for night shift work.

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required by Client or Owner to conform with any local, state or federal wage act requirements, including but not limited to the Davis Bacon Act, as Amended, the McNamara-O'Hara Service Contract Act, etc., the required use of union labor, or for any required safety, security, vehicle, drug and alcohol testing, or any third party payment fees, or other requirements not specified in the Client's request for proposal or not defined in Geotechnology's scope of services.

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9.0 AUTHORIZATION

Our services will be provided in accordance with the previously agreed upon terms described in P040917.04 between the City of Lee's Summit and Geotechnology. Please authorize our services by signing below.

Geotechnology is authorized to provide the construction materials testing services as discussed herein.

Signature: _____

Name: _____

Title: _____

Date: _____

* * * * * * *

We appreciate the opportunity to submit this proposal for the referenced project and look forward to hearing from you soon. If you have a question or comment concerning this proposal, or if we may be of any other service to you, please do not hesitate to contact us.

Respectfully submitted,

GEOTECHNOLOGY, LLC

Steve Damron
CMT Department Manager

Enclosed: Fee Estimate

City of Lee's Summit
November 22, 2021

P040917.04

Lee's Summit Fire Station No. 5
Fee Estimate
Geotechnology, LLC

Project Setup	**Code**	**#**	**Units**	**#**	**Units**	**Unit Cost**	**Units**	**Totals**
Set up	P002	1	lump sum			$210.00	lump sum	$210.00
							Subtotal	$210.00

Soils and/or Aggregates Testing/Observation	**Code**	**#**	**Units**	**#**	**Units**	**Unit Cost**	**Units**	**Totals**
- Labor								
Trips - Zone 6	Zone 6	10	trips			$61.00	per trip	$610.00
Field Representative, Level 1 - Mass Grading	105	2	days	3	hours/day	$60.00	per hour	$360.00
Field Representative, Level 1 - Building LVC	105	2	days	3	hours/day	$60.00	per hour	$360.00
Field Representative, Level 1 - Pavement LVC	105	1	days	3	hours/day	$60.00	per hour	$180.00
Field Representative, Level 1 - Utility Trench Backfill	105	2	days	3	hours/day	$60.00	per hour	$360.00
Field Representative, Level 1 - Subgrade Evaluation	105	2	days	3	hours/day	$60.00	per hour	$360.00
Field Representative - Sample Pick-ups, Level 1	105	1	days	2	hours/day	$60.00	per hour	$120.00
- Equipment								
Nuclear Densometer	FT100	7	days			$37.00	per day	$259.00
- Laboratory								
Atterberg Limits, One Point (ASTM D 4318)	L111	2	tests			$68.00	per test	$136.00
Standard Proctor, 6" (ASTM D 698)	L201	1	tests			$225.00	per test	$225.00
Standard Proctor, 4" (ASTM D 698)	L202	2	tests			$195.00	per test	$390.00
Proctor Admixture	LC420	1	tests			$47.00	per test	$47.00
							Subtotal	$3,407.00

Foundation Observation/Testing	**Code**	**#**	**Units**	**#**	**Units**	**Unit Cost**	**Units**	**Totals**
- Labor								
Trips - Zone 6	Zone 6	10	trips			$61.00	per trip	$610.00
Field Representative, Level 2	106	8	days	3	hours/day	$68.00	per hour	$1,632.00
Field Representative - Cylinder Pick-ups, Level 1	105	1	days	1.5	hours/day	$60.00	per hour	$90.00
Overtime, Field Representative - Cylinder Pick-ups, Level 1	105	1	days	1.5	hours/day	$90.00	per hour	$135.00
- Laboratory								
Compressive Strength of Cylinders 4" x 8" (ASTM C 39)	LC020	8	sets	4	cylinders/set	$19.00	per cylinder	$608.00
							Subtotal	$3,075.00

Concrete Observation/Testing	**Code**	**#**	**Units**	**#**	**Units**	**Unit Cost**	**Units**	**Totals**
- Labor								
Trips - Zone 6	Zone 6	21	trips			$61.00	per trip	$1,281.00
Field Representative, Level 1 - Interior Slab-on-Grade	105	3	days	3	hours/day	$60.00	per hour	$540.00
Field Representative, Level 1 - Patio	105	1	days	3	hours/day	$60.00	per hour	$180.00
Field Representative, Level 1 - Slab-on-Deck	105	1	days	3	hours/day	$60.00	per hour	$180.00
Field Representative, Level 1 - Storm Shelter Lid	105	1	days	3	hours/day	$60.00	per hour	$180.00
Field Representative, Level 1 - Pavement	105	4	days	3	hours/day	$60.00	per hour	$720.00
Field Representative, Level 1 - Sidewalk/Patio	105	3	days	3	hours/day	$60.00	per hour	$540.00
Field Representative, Level 1 - Curb	105	1	days	3	hours/day	$60.00	per hour	$180.00
Field Representative, Level 1 - Retaining Wall	105	2	days	3	hours/day	$60.00	per hour	$360.00
Field Representative - Cylinder Pick-ups, Level 1	105	4	days	1.5	hours/day	$60.00	per hour	$360.00
Overtime, Field Representative - Cylinder Pick-ups, Level 1	105	2	days	1.5	hours/day	$90.00	per hour	$270.00
- Laboratory								
Compressive Strength of Cylinders 4" x 8" (ASTM C 39)	LC020	21	sets	4	cylinders/set	$19.00	per cylinder	$1,596.00
							Subtotal	$6,387.00

Field Structural Steel Observation/Testing	**Code**	**#**	**Units**	**#**	**Units**	**Unit Cost**	**Units**	**Totals**
- Labor								
Trips - Zone 6	Zone 6	6	trips			$61.00	per trip	$366.00
Senior Field Representative	104	6	days	4	hours/day	$95.00	per hour	$2,280.00
- Equipment								
Skidmore Wilhelm (Bolt Installation Verification)	FT201	1	days			$37.00	per day	$37.00
							Subtotal	$2,683.00

Structural Masonry Testing/Observation	**Code**	**#**	**Units**	**#**	**Units**	**Unit Cost**	**Units**	**Totals**
- Labor								
Trips - Zone 6	Zone 6	16	trips			$61.00	per trip	$976.00
Field Representative, Level 3	107	16	days	3	hours/day	$74.00	per hour	$3,552.00
- Laboratory								
Compressive Strength of Grout (ASTM C 1019)	LC510	2	sets	3	prisms/set	$37.00	per prism	$222.00

Compressive Strength of Masonry Prisms (ASTM C 1314)*	LC533	2	sets	3	prisms/set	$126.00	per prism	$756.00
							Subtotal	$5,506.00

Fire-Resistive Materials Testing	**Code**	**#**	**Units**	**#**	**Units**	**Unit Cost**	**Units**	**Totals**
- Labor								
Trips - Zone 6	Zone 6	3	trips			$61.00	per trip	$183.00
Field Representative, Senior Field Representative	104	3	days	3	hours/day	$95.00	per hour	$855.00
							Subtotal	$1,038.00

CMT Consulting/Project Management	**Code**	**#**	**Units**	**#**	**Units**	**Unit Cost**	**Units**	**Totals**
- Labor								
Trips - Zone 6	Zone 6	2	trips			$61.00	per trip	$122.00
Project Manager	26	15	hours			$140.00	per hour	$2,100.00
Project Administration	59	6	hours			$68.00	per hour	$408.00
							Subtotal	$2,630.00

TOTAL	**$24,936.00**

The following items were not included in this Fee Estimate:

1. Excessive retests or reinspections of repaired or reworked conditions previously indicated as deficient.
2. Excessive stand-by time on site due to circumstances beyond the control of Geotechnology, LLC.
3. Extra or additional services beyond those identified within this proposal.
4. Weekend, holiday, and overtime work in excess of the allowances contained herein.

Note: *Hourly rates are portal-to-portal. All durations are rounded to the nearest quarter-hour. All personnel services conducted in the field are subject to a 3-hour minimum (cylinder sample pickups are subject to a 1-hour minimum).*