



FLOYD COUNTY BOARD OF EDUCATION  
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William Newsome, Jr., Board Chair - District 3  
Linda C. Gearheart, Vice-Chair - District 1  
Dr. Chandra Varia, Member- District 2  
Keith Smallwood, Member - District 4  
Steve Slone, Member - District 5

**Consent Agenda Item (Action Item):** Consider/Approve Terracon for Geotechnical Services for the Central Office Track Project

**Proposal/Scope:** Terracon has submitted a proposal in the amount of \$12,000 to provide geotechnical services for the Central Office Track Project. The scope of work will include:

- Project Understanding
- Scope of Services
- Compensation and Project Schedule
- Site Location and Review of Nearby Geotechnical Data
- Anticipated Exploration Plan

**Applicable State Regulations:** Capital Construction Process, 702 KAR 4:160

**Fiscal/Budgetary Impact:** The initial BG-1 cost is \$943,000, to be paid from General Funds.

**History/Background:**

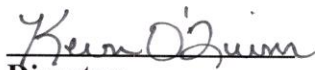
The initial BG-1 for the Central Office Track Project was approved on September 26, 2025.

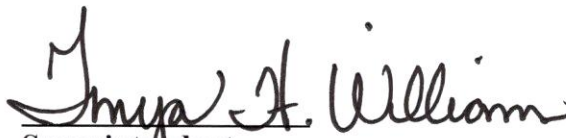
**Recommended Action:**

Approval of Terracon to provide geotechnical services for the Central Office Track Project.

**Contact Person(s):**

Kevin O'Quinn, Facilities Director

  
Director

  
Superintendent

**Date:** October 6, 2025

September 15<sup>th</sup>, 2025

TO: Michael Hughes, AIA, LEED AP

FROM: Grace Madden  
Rosstarrant Architects, Inc.

RE: Floyd Co. Allen Central Track Improvements  
RTA 22034

RTA has sent geotechnical requests for proposals to S&ME, Terracon, and UES. RTA has received and reviewed the geotechnical exploration proposals in summary:

Company	Turnaround Time	Total
Terracon	6 weeks	\$12,000
UES	6-7 weeks	\$16,300
S&ME	6-7 weeks	\$17,280

**Terracon**

Terracon presented a lump sum fee of \$12,000.00 for the project including private utility locating services. Geotechnical reports will be made available 6 weeks after notice to proceed.

**UES**

UES presented a lump sum fee of \$16,300.00 for the project including an optional \$1,700.00 private utility locator fee. Geotechnical reports will be made available 6-7 weeks after notice to proceed.

**S&ME**

S&ME presented a lump sum fee of \$17,280 for the project including an optional \$1,380.00. Geotechnical reports will be made available 5-6 weeks after notice to proceed.

**Conclusion**

Based on the cost, personnel proposed, and the scope of work to be performed, we are recommending that **Terracon** be awarded the Geotechnical Exploration work for the project. If you have any questions, please let us know.

END OF MEMORANDUM

Sincerely,

Grace Madden

Enclosures

c: Sarah Lamere,  
Michael Hughes,  
Kevin McCalla,  
Michael B. Mays,  
File 22034-1A  
250915-Geotech-summary



2460 Palumbo Drive  
Lexington, Kentucky 40509  
P (859) 303-9000  
**Terracon.com**

September 17, 2025

RossTarrant Architects  
101 Old Lafayette Avenue  
Lexington, Kentucky 40502

**Attn:** Grace Madden  
P: (859) 254-4018  
E: gmadden@rosstarrent.com

**RE:** Proposal for Geotechnical Engineering Services  
Allen Central Track Improvement  
442 KY Route 550  
Eastern, Kentucky  
Terracon Proposal No. PN3255089

Dear Ms. Madden:

We appreciate the opportunity to submit this proposal to RossTarrant Architects to provide Geotechnical Engineering services for the above referenced project. The following are exhibits to the attached Agreement for Services.

Exhibit A	Project Understanding
Exhibit B	Scope of Services
Exhibit C	Compensation and Project Schedule
Exhibit D	Site Location and Nearby Geotechnical Data
Exhibit E	Anticipated Exploration Plan

Our base fee to perform the Scope of Services described in this proposal is \$12,000 with an anticipated delivery date of 6 weeks after signed authorization. Exhibit C includes details of our fees and consideration of additional services as well as a general breakdown of our anticipated schedule.

Your authorization for Terracon to proceed in accordance with this proposal can be issued by signing and returning a copy of the attached Agreement for to our office

Sincerely,  
**Terracon**

Matthew A. Hurley, P.E.  
Senior Staff Engineer

Alain J. Gallet, P.E.  
Principal Geotechnical Engineer


## AGREEMENT FOR SERVICES

This **AGREEMENT** is between Floyd County Board of Education ("Client") and Terracon Consultants, Inc. ("Consultant") for Services to be provided by Consultant for Client on the Allen Central Track Improvement project ("Project"), as described in Consultant's Proposal dated 09/17/2025 ("Proposal"), including but not limited to the Project Information section, unless the Project is otherwise described in Exhibit A to this Agreement (which section or Exhibit is incorporated into this Agreement).

- 1. Scope of Services.** The scope of Consultant's services is described in the Proposal, including but not limited to the Scope of Services section ("Services"), unless Services are otherwise described in Exhibit B to this Agreement (which section or exhibit is incorporated into this Agreement). Portions of the Services may be subcontracted. Consultant's Services do not include the investigation or detection of, nor do recommendations in Consultant's reports address the presence or prevention of biological pollutants (e.g., mold, fungi, bacteria, viruses, or their byproducts) or occupant safety issues, such as vulnerability to natural disasters, terrorism, or violence. If Services include purchase of software, Client will execute a separate software license agreement. Consultant's findings, opinions, and recommendations are based solely upon data and information obtained by and furnished to Consultant at the time of the Services.
- 2. Acceptance/ Termination.** Client agrees that execution of this Agreement is a material element of the consideration Consultant requires to execute the Services, and if Services are initiated by Consultant prior to execution of this Agreement as an accommodation for Client at Client's request, both parties shall consider that commencement of Services constitutes formal acceptance of all terms and conditions of this Agreement. Additional terms and conditions may be added or changed only by written amendment to this Agreement signed by both parties. In the event Client uses a purchase order or other form to administer this Agreement, the use of such form shall be for convenience purposes only and any additional or conflicting terms it contains are stricken. This Agreement shall not be assigned by either party without prior written consent of the other party. Either party may terminate this Agreement or the Services upon written notice to the other. In such case, Consultant shall be paid costs incurred and fees earned to the date of termination plus reasonable costs of closing the Project.
- 3. Change Orders.** Client may request changes to the scope of Services by altering or adding to the Services to be performed. If Client so requests, Consultant will return to Client a statement (or supplemental proposal) of the change setting forth an adjustment to the Services and fees for the requested changes. Following Client's review, Client shall provide written acceptance. If Client does not follow these procedures, but instead directs, authorizes, or permits Consultant to perform changed or additional work, the Services are changed accordingly and Consultant will be paid for this work according to the fees stated or its current fee schedule. If project conditions change materially from those observed at the site or described to Consultant at the time of proposal, Consultant is entitled to a change order equitably adjusting its Services and fee.
- 4. Compensation and Terms of Payment.** Client shall pay compensation for the Services performed at the fees stated in the Proposal, including but not limited to the Compensation section, unless fees are otherwise stated in Exhibit C to this Agreement (which section or Exhibit is incorporated into this Agreement). If not stated in either, fees will be according to Consultant's current fee schedule. Fee schedules are valid for the calendar year in which they are issued. Fees do not include sales tax. Client will pay applicable sales tax as required by law. Consultant may invoice Client at least monthly and payment is due upon receipt of invoice. Client shall notify Consultant in writing, at the address below, within 15 days of the date of the invoice if Client objects to any portion of the charges on the invoice, and shall promptly pay the undisputed portion. Client shall pay a finance fee of 1.5% per month, but not exceeding the maximum rate allowed by law, for all unpaid amounts 30 days or older. Client agrees to pay all collection-related costs that Consultant incurs, including attorney fees. Consultant may suspend Services for lack of timely payment. It is the responsibility of Client to determine whether federal, state, or local prevailing wage requirements apply and to notify Consultant if prevailing wages apply. If it is later determined that prevailing wages apply, and Consultant was not previously notified by Client, Client agrees to pay the prevailing wage from that point forward, as well as a retroactive payment adjustment to bring previously paid amounts in line with prevailing wages. Client also agrees to defend, indemnify, and hold harmless Consultant from any alleged violations made by any governmental agency regulating prevailing wage activity for failing to pay prevailing wages, including the payment of any fines or penalties.
- 5. Third Party Reliance.** This Agreement and the Services provided are for Consultant and Client's sole benefit and exclusive use with no third party beneficiaries intended. Reliance upon the Services and any work product is limited to Client, and is not intended for third parties other than those who have executed Consultant's reliance agreement, subject to the prior approval of Consultant and Client.
- 6. LIMITATION OF LIABILITY.** CLIENT AND CONSULTANT HAVE EVALUATED THE RISKS AND REWARDS ASSOCIATED WITH THIS PROJECT, INCLUDING CONSULTANT'S FEE RELATIVE TO THE RISKS ASSUMED, AND AGREE TO ALLOCATE CERTAIN OF THE ASSOCIATED RISKS. TO THE FULLEST EXTENT PERMITTED BY LAW, THE TOTAL AGGREGATE LIABILITY OF CONSULTANT (AND ITS RELATED CORPORATIONS AND EMPLOYEES) TO CLIENT AND THIRD PARTIES GRANTED RELIANCE IS LIMITED TO THE GREATER OF \$50,000 OR CONSULTANT'S FEE, FOR ANY AND ALL INJURIES, DAMAGES, CLAIMS, LOSSES, OR EXPENSES (INCLUDING ATTORNEY AND EXPERT FEES) ARISING OUT OF CONSULTANT'S SERVICES OR THIS AGREEMENT. PRIOR TO ACCEPTANCE OF THIS AGREEMENT AND UPON WRITTEN REQUEST FROM CLIENT, CONSULTANT MAY NEGOTIATE A HIGHER LIMITATION FOR ADDITIONAL CONSIDERATION IN THE FORM OF A SURCHARGE TO BE ADDED TO THE AMOUNT STATED IN THE COMPENSATION SECTION OF THE PROPOSAL. THIS LIMITATION SHALL APPLY REGARDLESS OF AVAILABLE PROFESSIONAL LIABILITY INSURANCE COVERAGE, CAUSE(S), OR THE THEORY OF LIABILITY, INCLUDING NEGLIGENCE, INDEMNITY, OR OTHER RECOVERY. THIS LIMITATION SHALL NOT APPLY TO THE EXTENT THE DAMAGE IS PAID UNDER CONSULTANT'S COMMERCIAL GENERAL LIABILITY POLICY.
- 7. Indemnity/Statute of Limitations.** Consultant and Client shall indemnify and hold harmless the other and their respective employees from and against legal liability for claims, losses, damages, and expenses to the extent such claims, losses, damages, or expenses are legally determined to be caused by their negligent acts, errors, or omissions. In the event such claims, losses, damages, or expenses are legally determined to be caused by the joint or concurrent negligence of Consultant and Client, they shall be borne by each party in proportion to its own negligence under comparative fault principles. Neither party shall have a duty to defend the other party, and no duty to defend is hereby created by this indemnity provision and such duty is explicitly waived under this Agreement. Causes of action arising out of Consultant's Services or this Agreement regardless of cause(s) or the theory of liability, including negligence, indemnity or other recovery shall be deemed to have accrued and the applicable statute of limitations shall commence to run not later than the date of Consultant's substantial completion of Services on the project.
- 8. Warranty.** Consultant will perform the Services in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. **EXCEPT FOR THE STANDARD OF CARE PREVIOUSLY STATED, CONSULTANT MAKES NO WARRANTIES OR GUARANTEES, EXPRESS OR IMPLIED, RELATING TO CONSULTANT'S SERVICES AND CONSULTANT DISCLAIMS ANY IMPLIED WARRANTIES OR WARRANTIES IMPOSED BY LAW, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**
- 9. Insurance.** Consultant represents that it now carries, and will continue to carry: (i) workers' compensation insurance in accordance with the laws of the states having jurisdiction over Consultant's employees who are engaged in the Services, and employer's liability insurance (\$1,000,000); (ii) commercial general liability insurance (\$2,000,000 occ / \$4,000,000 agg); (iii) automobile liability insurance (\$2,000,000 B.I. and P.D. combined single limit); (iv) umbrella liability (\$5,000,000 occ / agg); and (v) professional liability insurance (\$1,000,000 claim / agg). Certificates of insurance will be provided upon request. Client and Consultant shall waive subrogation against the other party on all general liability and property coverage.

- 10. CONSEQUENTIAL DAMAGES.** NEITHER PARTY SHALL BE LIABLE TO THE OTHER FOR LOSS OF PROFITS OR REVENUE; LOSS OF USE OR OPPORTUNITY; LOSS OF GOOD WILL; COST OF SUBSTITUTE FACILITIES, GOODS, OR SERVICES; COST OF CAPITAL; OR FOR ANY SPECIAL, CONSEQUENTIAL, INDIRECT, PUNITIVE, OR EXEMPLARY DAMAGES.
- 11. Dispute Resolution.** Client shall not be entitled to assert a Claim against Consultant based on any theory of professional negligence unless and until Client has obtained the written opinion from a registered, independent, and reputable engineer, architect, or geologist that Consultant has violated the standard of care applicable to Consultant's performance of the Services. Client shall provide this opinion to Consultant and the parties shall endeavor to resolve the dispute within 30 days, after which Client may pursue its remedies at law. This Agreement shall be governed by and construed according to Kentucky law.
- 12. Subsurface Explorations.** Subsurface conditions throughout the site may vary from those depicted on logs of discrete borings, test pits, or other exploratory services. Client understands Consultant's layout of boring and test locations is approximate and that Consultant may deviate a reasonable distance from those locations. Consultant will take reasonable precautions to reduce damage to the site when performing Services; however, Client accepts that invasive services such as drilling or sampling may damage or alter the site. Site restoration is not provided unless specifically included in the Services.
- 13. Testing and Observations.** Client understands that testing and observation are discrete sampling procedures, and that such procedures indicate conditions only at the depths, locations, and times the procedures were performed. Consultant will provide test results and opinions based on tests and field observations only for the work tested. Client understands that testing and observation are not continuous or exhaustive, and are conducted to reduce - not eliminate - project risk. Client shall cause all tests and inspections of the site, materials, and Services performed by Consultant to be timely and properly scheduled in order for the Services to be performed in accordance with the plans, specifications, contract documents, and Consultant's recommendations. No claims for loss or damage or injury shall be brought against Consultant by Client or any third party unless all tests and inspections have been so performed and Consultant's recommendations have been followed. Unless otherwise stated in the Proposal, Client assumes sole responsibility for determining whether the quantity and the nature of Services ordered by Client is adequate and sufficient for Client's intended purpose. Client is responsible (even if delegated to contractor) for requesting services, and notifying and scheduling Consultant so Consultant can perform these Services. Consultant is not responsible for damages caused by Services not performed due to a failure to request or schedule Consultant's Services. Consultant shall not be responsible for the quality and completeness of Client's contractor's work or their adherence to the project documents, and Consultant's performance of testing and observation services shall not relieve Client's contractor in any way from its responsibility for defects discovered in its work, or create a warranty or guarantee. Consultant will not supervise or direct the work performed by Client's contractor or its subcontractors and is not responsible for their means and methods. The extension of unit prices with quantities to establish a total estimated cost does not guarantee a maximum cost to complete the Services. The quantities, when given, are estimates based on contract documents and schedules made available at the time of the Proposal. Since schedule, performance, production, and charges are directed and/or controlled by others, any quantity extensions must be considered as estimated and not a guarantee of maximum cost.
- 14. Sample Disposition, Affected Materials, and Indemnity.** Samples are consumed in testing or disposed of upon completion of the testing procedures (unless stated otherwise in the Services). Client shall furnish or cause to be furnished to Consultant all documents and information known or available to Client that relate to the identity, location, quantity, nature, or characteristic of any hazardous waste, toxic, radioactive, or contaminated materials ("Affected Materials") at or near the site, and shall immediately transmit new, updated, or revised information as it becomes available. Client agrees that Consultant is not responsible for the disposition of Affected Materials unless specifically provided in the Services, and that Client is responsible for directing such disposition. In no event shall Consultant be required to sign a hazardous waste manifest or take title to any Affected Materials. Client shall have the obligation to make all spill or release notifications to appropriate governmental agencies. The Client agrees that Consultant neither created nor contributed to the creation or existence of any Affected Materials conditions at the site and Consultant shall not be responsible for any claims, losses, or damages allegedly arising out of Consultant's performance of Services hereunder, or for any claims against Consultant as a generator, disposer, or arranger of Affected Materials under federal, state, or local law or ordinance.
- 15. Ownership of Documents.** Work product, such as reports, logs, data, notes, or calculations, prepared by Consultant shall remain Consultant's property. Proprietary concepts, systems, and ideas developed during performance of the Services shall remain the sole property of Consultant. Files shall be maintained in general accordance with Consultant's document retention policies and practices.
- 16. Utilities.** Unless otherwise stated in the Proposal, Client shall provide the location and/or arrange for the marking of private utilities and subterranean structures. Consultant shall take reasonable precautions to avoid damage or injury to subterranean structures or utilities. Consultant shall not be responsible for damage to subterranean structures or utilities that are not called to Consultant's attention, are not correctly marked, including by a utility locate service, or are incorrectly shown on the plans furnished to Consultant.
- 17. Site Access and Safety.** Client shall secure all necessary site related approvals, permits, licenses, and consents necessary to commence and complete the Services and will execute any necessary site access agreement. Consultant will be responsible for supervision and site safety measures for its own employees, but shall not be responsible for the supervision or health and safety precautions for any third parties, including Client's contractors, subcontractors, or other parties present at the site. In addition, Consultant retains the right to stop work without penalty at any time Consultant believes it is in the best interests of Consultant's employees or subcontractors to do so in order to reduce the risk of exposure to unsafe site conditions. Client agrees it will respond quickly to all requests for information made by Consultant related to Consultant's pre-task planning and risk assessment processes.

Consultant: **Terracon Consultants, Inc.**

By:  Date: **9/17/2025**

Name/Title: **Alain J Gallet, P.E. / Senior National Account Manager**

Address: **2460 Palumbo Dr  
Lexington, KY 40509-1117**

Phone: **(859) 303-9000** Fax: \_\_\_\_\_

Email: **Alain.Gallet@terracon.com**

Client: **Floyd County Board of Education**

By: \_\_\_\_\_ Date: \_\_\_\_\_

Name/Title: **/**

Address: **442 KY Route 550  
Eastern, KY 41622**

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

## Exhibit A – Project Understanding

Our Scope of Services is based on our understanding of the project as described by RossTarrant and the expected subsurface conditions as described below. We have not visited the project site to confirm the information provided. Aspects of the project, undefined or assumed, are highlighted as shown below. We request RossTarrant and/or the design team verify all information prior to our initiation of field exploration activities.

### Planned Construction

Item	Description
<b>Information Provided</b>	An email request for proposal was provided by Ms. Grace Madden on September 12, 2025. This request included a RFP outlining the geotechnical parameters desired for this project along with a site plan.
<b>Project Description</b>	This proposed project includes the replacement of a six-lane track, new sports lights, restroom renovation, new parking, entry plaza, and replacement of a perimeter fence.
<b>Maximum Loads</b>	Structural loads for this project were not provided at this time. In the absence of information provided by the design team, we ask that anticipated loads are provided prior to issuing the final geotechnical evaluation.
<b>Grading/Slopes</b>	Grading is not anticipated for this project. Final grades for the new track are anticipated to be at or near grade of the existing track.
<b>Below-Grade Structures</b>	Not anticipated at this time.
<b>Free-Standing Retaining Walls</b>	Not anticipated at this time.
<b>Pavements</b>	Pavement types are anticipated to be flexible asphalt and ridged concrete pavements. The pavement and track design period is 20 years.
<b>Building Code</b>	2018 Kentucky Building Code (KBC) and 2015 International Building Code (IBC)

## Site Location and Anticipated Conditions

Item	Description
<b>Parcel Information</b>	The project is located at 442 KY Route 550 in Eastern, Kentucky. +/- 3.5 Acres 37.51830, -82.80523 Latitude/Longitude (approximate) (See Exhibit D)
<b>Existing Improvements</b>	An existing outdoor track and football field.
<b>Current Ground Cover</b>	Asphalt pavements and mowed grass areas.
<b>Existing Topography</b>	Based on data from Google Earth, the site is relatively flat with elevations ranging from 674 to 677 Ft above sea level.
<b>Site Access</b>	We expect the site, and all exploration locations, are accessible with our track-mounted drilling equipment and support vehicles.
<b>Expected Subsurface Conditions</b>	Our experience near the vicinity of the proposed development and review of geologic maps indicates subsurface conditions consist of sandy clays and fill material followed by sandstone type bedrock ranging from 35 to 50 feet below grade.



## Exhibit B - Scope of Services

Our proposed Scope of Services consists of field exploration, laboratory testing, and engineering/project delivery. These services are described in the following sections.

### Field Exploration

RossTarrant requested the following boring locations and depths. The following field exploration program is anticipated to be completed within 1 day of on-site activities.

Number of Borings	Planned Boring Depth (feet) <sup>1</sup>	Planned Location <sup>2</sup>
7	15 or auger refusal	Track Areas <sup>3</sup>
2	15 or auger refusal	Possible Structure Areas <sup>4</sup>

1. Borings would be terminated at shallower depths if refusal is encountered.
2. The planned boring locations are shown on the attached **Anticipated Exploration Plan**.
3. At a minimum one of the borings shall be extended to refusal. Bedrock is anticipated to range from 35 to 50 feet deep.
4. If refusal is encountered prior to achieving the desired 15 feet depth, a minimum 10 feet sample of rock will be collected in each boring. At a minimum one of the borings shall be extended to refusal.

**Boring Layout and Elevations:** We will use handheld GPS equipment to locate borings with an estimated horizontal accuracy of +/-10 feet. Field measurements from existing site features may be utilized. If available, approximate elevations will be obtained by interpolation from a site specific, surveyed topographic map. We can alternatively coordinate with your Project Surveyor to include locations and surface elevations in project information if so requested.

**Subsurface Exploration Procedures:** We will advance borings with a track-mounted drill rig using continuous flight augers (solid stem and/or hollow stem, as necessary, depending on soil conditions). Four samples will be obtained in the upper 10 feet of each boring and at intervals of 5 feet thereafter. Soil sampling is typically performed using thin-wall tube and/or split-barrel sampling procedures. The split-barrel samplers are driven in accordance with the standard penetration test (SPT). The samples will be placed in appropriate containers, taken to our soil laboratory for testing, and classified by a Geotechnical Engineer. In addition, we will observe and record groundwater levels during drilling and sampling.



If bedrock is encountered prior to achieving the desired depth in borings B-2 and B-5, rock coring (using NQ/NX rock core barrel) will be performed. A minimum of 10 feet of rock coring will be performed at each of these borings. Water will be used as a drilling fluid for rock coring and the spent water will be discharged on site. Our proposed budget considers water is available on-site.

Our exploration team will prepare field boring logs as part of standard drilling operations including sampling depths, penetration distances, and other relevant sampling information. Field logs include visual classifications of materials observed during drilling and our interpretation of subsurface conditions between samples. Final boring logs, prepared from field logs, represent the Geotechnical Engineer's interpretation and include modifications based on observations and laboratory tests.

**Property Disturbance:** Terracon will take reasonable efforts to reduce damage to the property. However, it should be understood that in the normal course of our work some disturbance could occur including rutting of the ground surface and damage to landscaping.

We will backfill borings with auger cuttings and/or bentonite pellets upon completion. Pavements will be patched with cold-mix asphalt and/or ready-mixed concrete, as appropriate. Our services do not include repair of the site beyond backfilling our boreholes and patching existing pavements. Excess auger cuttings will be dispersed in the general vicinity of the borehole. Because backfill material often settles below the surface after a period and since this is an active track and could cause tripping hazard, we recommend boreholes to be periodically checked and backfilled, if necessary. We can provide this service or grout the boreholes for additional fees at your request.

## Safety

Terracon is not aware of environmental concerns at this project site that would create health or safety hazards associated with our exploration program; thus, our Scope considers standard OSHA Level D Personal Protection Equipment (PPE) appropriate. Our Scope of Services does not include environmental site assessment services, but identification of unusual or unnatural materials observed while drilling will be noted on our logs.

Exploration efforts require borings into the subsurface, therefore Terracon will comply with local regulations to request a utility location service through Kentucky 811. We will consult with the landowner/client regarding potential utilities or other unmarked underground hazards. Based upon the results of this consultation, we will consider the need for alternative subsurface exploration methods as the safety of our field crew is a priority.

Private utilities should be marked by the owner/client prior to commencement of field exploration. Terracon will not be responsible for damage to private utilities not disclosed to us.

Terracon proposes to subcontract with a private utility locating service. Fees associated with this service are included in our Scope of Services.

The detection of underground utilities is dependent upon the composition and construction of the utility line; some utilities are comprised of non-electrically conductive materials and may not be readily detected. The use of a private utility locate service would not relieve the landowner/client of their responsibilities in identifying private underground utilities.

**Site Access:** Terracon must be granted access to the site by the property owner. Without information to the contrary, we consider acceptance of this proposal as authorization to access the property for conducting field exploration in accordance with the Scope of Services. Our proposed fees do not include time to negotiate and coordinate access with landowners or tenants. Terracon will conduct field services during normal business hours (Monday through Friday between 7:00am and 5:00pm). If our exploration must take place over the weekend or at night, please contact us so we can adjust our schedule and fee.

## Laboratory Testing

The project engineer will review field data and assign laboratory tests to understand the engineering properties of various soil and rock strata. Exact types and number of tests cannot be defined until completion of fieldwork, but we anticipate the following laboratory testing may be performed:

- Water content
- Unit dry weight
- Atterberg limits
- Grain size analysis
- Swell/consolidation – if deemed necessary
- Unconfined compressive strength for soil and rock
- Moisture-density relationship
- California Bearing Ratio (CBR)

Our laboratory testing program often includes examination of soil samples by an engineer. Based on the results of our field and laboratory programs, we will describe and classify soil samples in accordance with the Unified Soil Classification System (USCS).

Rock classification will be conducted using locally accepted practices for engineering purposes; petrographic analysis (if performed) may reveal other rock types. Rock core samples typically provide an improved specimen for this classification. Boring log rock classification is determined using the Description of Rock Properties.

## Engineering and Project Delivery

The results of our field and laboratory programs will be evaluated, and a geotechnical engineering report will be prepared under the supervision of a licensed professional engineer. The geotechnical engineering report will provide the following:

- Boring logs with field and laboratory data
- Stratification based on visual soil and rock classification
- Groundwater levels observed during and after the completion of drilling
- Site Location and Exploration Plans
- Subsurface exploration procedures
- Description of subsurface conditions
- Recommended foundation options and engineering design parameters
- Estimated settlement of foundations
- Recommendations for design and construction of interior floor slabs
- Seismic site classification
- Earthwork recommendations including site/subgrade preparation
- Lateral earth pressure recommendations
- Recommended pavement options and design parameters

In addition to an emailed report, your project will also be delivered using our client portal, **Compass**. Upon initiation, we provide you and your design team the necessary link and password to access the website (if not previously registered). Each project includes a calendar to track the schedule, an interactive site map, a listing of team members, access to the project documents as they are uploaded to the site, and a collaboration portal. We welcome the opportunity to have project kickoff conversations with the team to discuss key elements of the project and demonstrate features of **Compass**. The typical delivery process includes the following:

- Project Planning – Proposal information, schedule and anticipated exploration plan
- Site Characterization – Findings of the site exploration and laboratory results
- Geotechnical Engineering Report

When services are complete, we upload a printable version of our completed Geotechnical Engineering report, including the professional engineer's seal and signature, which documents our services. Previous submittals, collaboration, and the

report are maintained in our system. This allows future reference and integration into subsequent aspects of our services as the project goes through final design and construction.

## Additional Services

In addition to the services noted above, the following are often associated with geotechnical engineering services. Fees for services noted above do not include the following:

**Stage1:** If you need preliminary geotechnical data quickly, we can provide a Stage1 report in 3-5 business days. Terracon has amassed over 50+ years of historical projects to create better value for our clients. Using a GIS platform (pulling from over 750 databases), we have retrieved over 1,000,000 datapoints across the country, georeferenced each, and developed metadata that would allow for easy, and fast retrieval.

Because of this, we can provide a virtual boring log with preliminary geotechnical data and address the potential for subsurface contaminants, Natural and Cultural Resources, wetlands/waters, and threatened and endangered species that may affect your project's development.

**Review of Plans and Specifications:** Our geotechnical report and associated verbal and written communications will be used by others in the design team to develop plans and specifications for construction. Review of project plans and specifications is a vital part of our geotechnical engineering services. This consists of review of project plans and specifications related to site preparation, foundation, and pavement construction. Our review will include a written statement conveying our opinions relating to the plans and specifications' consistency with our geotechnical engineering recommendations.

**Observation and Testing of Pertinent Construction Materials:** Development of our geotechnical engineering recommendations and report relies on an interpretation of soil conditions. Our assessment is based on widely spaced exploration locations and the assumption that construction methods will be performed in a manner sufficient to meet our expectations and consistent with recommendations made at the time the geotechnical engineering report is issued. We should be retained to conduct construction observations, and perform/document associated materials testing, for site preparation, foundation, and pavement construction. These services allow a more comprehensive understanding of subsurface conditions and necessary documentation of construction to confirm and/or modify (when necessary) the assumptions and recommendations made by our engineers.

**Perform Environmental Assessments:** Our Scope for this project does not include, either specifically or by implication, an environmental assessment of the site intended to identify or quantify potential site contaminants. If the client/owner is concerned about the potential for such conditions, an environmental site assessment should be conducted. We can provide a proposal for an environmental assessment, if desired.

## Exhibit C - Compensation and Project Schedule

### Compensation

Based upon our understanding of the site, the project as summarized in Exhibit A, and our planned Scope of Services outlined in Exhibit B, our base fee is shown in the following table:

Task	Lump Sum Fee <sup>2</sup>
Subsurface Exploration, Private Utility Locates, Laboratory Testing, Geotechnical Consulting and Reporting	\$7,000
Subcontracted Driller <sup>1</sup>	\$4,000
Private Utility Locate Service	\$1,000
<b>Total</b>	<b>\$12,000</b>

1. The lump sum fee considers one drill rig mobilization and no unexpected onsite delays. If additional drill rig mobilizations are required, an additional fee of \$2,000 would be invoiced. A drill crew standby rate of \$350 per hour would be invoiced for unexpected delays.
2. Proposed fees noted above are effective for 90 days from the date of the proposal.

Our Scope of Services does not include services associated with site clearing, wet ground conditions, or repair of/damage to existing landscape. If such services are desired by the owner/client, we should be notified so we can adjust our Scope of Services.

Unless instructed otherwise, we will submit our invoice(s) to the address shown at the beginning of this proposal. If conditions are encountered that require Scope of Services revisions and/or result in higher fees, we will contact you for approval, prior to initiating services. A supplemental proposal stating the modified Scope of Services as well as its effect on our fee will be prepared. We will not proceed without your authorization.

### Project Schedule

We developed a schedule to complete the Scope of Services based upon our existing availability and understanding of your project schedule. However, our schedule does not account for delays in field exploration beyond our control, such as weather conditions, delays resulting from utility clearance, or lack of permission to access the boring

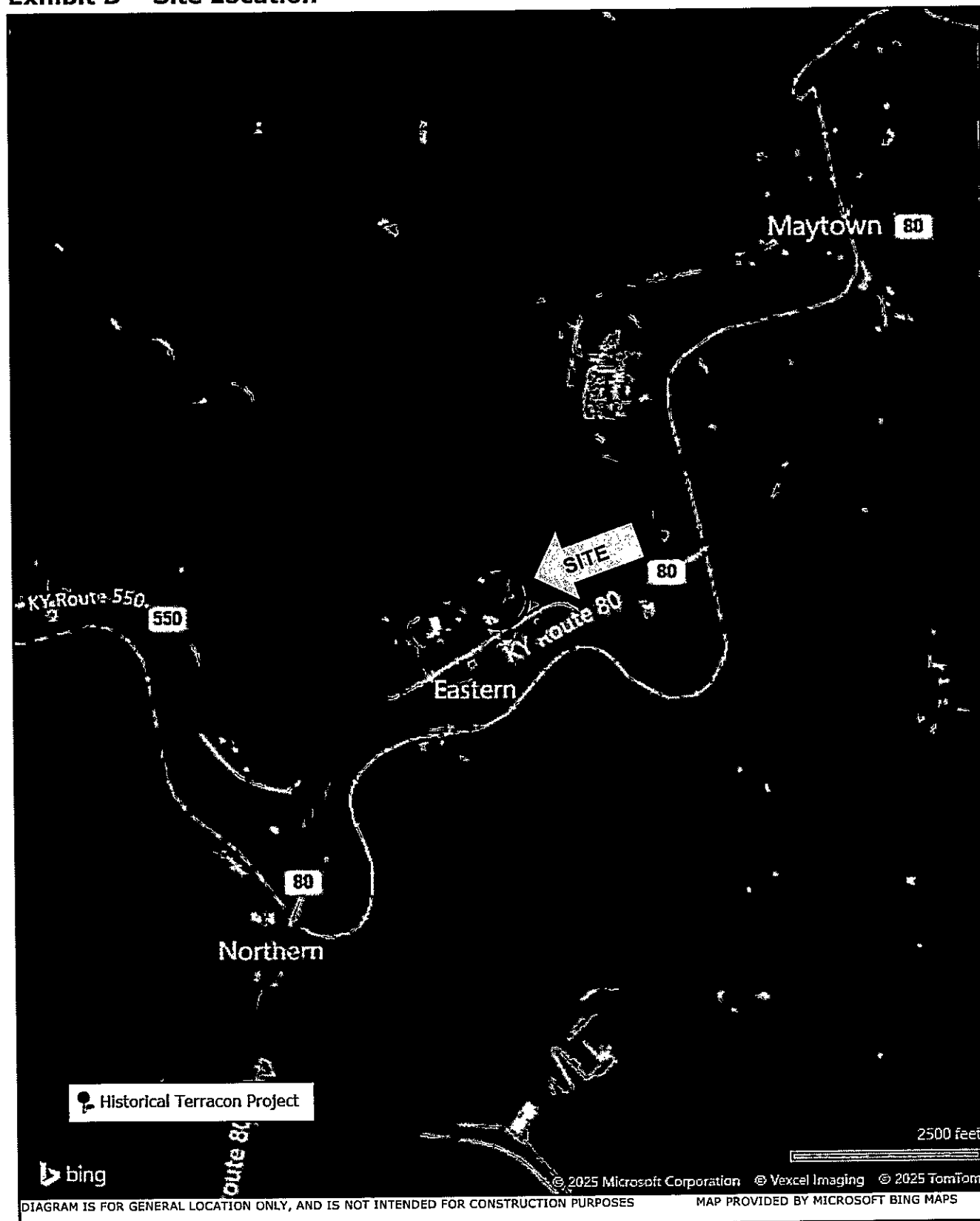


locations. In the event the schedule provided is inconsistent with your needs, please contact us so we may consider alternatives.

Delivery on Compass	Schedule <sup>1,2</sup>
Kickoff Call with Client	3 days after notice to proceed
Site Characterization	10 days after completion of field program
Geotechnical Engineering	15 days after completion of field program

1. Upon receipt of your notice to proceed we will activate the schedule component on **Compass** with specific, anticipated dates for the delivery points noted above as well as other pertinent events.
2. Standard workdays. We will maintain an activities calendar on **Compass**. The schedule will be updated to maintain a current awareness of our plans for delivery.

## Exhibit D – Site Location





## Exhibit E – Anticipated Exploration Plan

