



November 18, 2024

City of Madison
Parks and Recreation Department
8324 Madison Pike
Madison, Alabama 35758

ATTN: Mr. Kory Alfred

SUBJECT: Proposal for Geotechnical Engineering Study – Revision 1
Palmer Park and Dublin Park Lights
Madison, Alabama
GTEC Proposal No. P-00483

Ladies and Gentlemen,

GTEC, LLC is pleased to provide this proposal for a Geotechnical Engineering Study for the above referenced project in Madison, Alabama. Project information was provided by Mr. Kory Alfred, via email on November 5, 2024. This proposal describes the site and presents a planned scope of services, fee, and anticipated schedule.

PROJECT INFORMATION

GTEC, LLC understands that the City of Madison, Alabama Parks and Recreation Department intends to add lighting to the upper and lower soccer fields at Field 2 and at Field 5 of Palmer Park and to Field 4 at Dublin Park. Palmer Park is located at 574 Palmer Road in Madison, Alabama, about 0.5 miles east of County Line Road. Dublin Park is located at 8324 Old Madison Pike in Madison, Alabama, about 0.5 miles east of Hughes Road.

Palmer Park

At Palmer Park, there are currently four light poles located at Field 3, south of Field 2. The lights for soccer field 2 will include two new poles. Poles S-1 and S-2 will be 60-foot galvanized steel poles placed on two pre-cast concrete foundations with integrated grounding. Based on the Musco Lighting Preliminary Drawings “*Madison Soccer Phase 2- Madison, AL*”, dated October 9, 2024, and “*Palmer Park McEvoy Soccer Field*”, dated October 15, 2024, the poles at Field 2, labeled S-1 and S-2, and poles at Field 5, labeled S-7, S-8, S-9, and S-10, will be 30-inches in diameter and the concrete base weight for all poles will be 1,870 pounds. Poles S-1 and S-2 will have a total assembled weight of 1,189 pounds, and poles S-7, S-8, S-9, and S-10 will have a total assembled weight of 1,040 pounds. They will each be buried 10 feet below ground and will use 1.2 cubic yards of concrete backfill.



We understand lighting will be improved at the four existing light pole locations at Field 3. This proposal does not include exploration for these lighting improvements.

Dublin Park

At Dublin Park, the lights for soccer field 4 will include four new poles, labeled S-5, S-6, S-7, and S-8, that will be 60-foot galvanized steel poles placed on four pre-cast concrete foundations with integrated grounding. Based on the Musco Lighting Preliminary Drawings *“Dublin Park Soccer Field 4 – Madison, AL”*, dated October 16, 2024, the poles will be 30-inches in diameter, the concrete base weight will be 1,870 pounds, and the total assembled weight of the pole structure is 1,051 pounds. They will each be buried 10 feet below ground and will use 1.2 cubic yards of concrete backfill.

SCOPE OF SERVICES

The purpose of our study is to explore the subsurface conditions and groundwater levels in order to provide recommendations for construction planning. To accomplish this objective, we have developed the following scope of services.

We will contact Alabama One Call prior to the performance of our field services. The utility location services will only mark registered public utility lines; therefore, we will need assistance in locating private lines or underground structures.

Field Activities

Test locations will be marked using a hand-held GPS unit. If a topographic survey is provided, boring elevations can be estimated by interpolating between contour lines. If more accurate location and elevation are needed, we recommend our boring locations be staked by others.

GTEC proposes to explore the subsurface conditions with ten (10) soil test borings during this study. Each boring will be advanced to a depth of 20 feet or refusal, whichever occurs first. Standard penetration tests (SPT) in accordance with ASTM D1586 will be conducted in conjunction with the soil test borings. The SPT tests will be performed at 2-½ foot intervals in the upper 10 feet and at 5-foot intervals thereafter to boring termination or auger or SPT refusal. Pocket penetrometer readings may be taken on each sample and recorded on the Boring Log. Upon completion, subsurface water will be measured and recorded in each borehole, and the borehole will be backfilled with soil auger cuttings.

Laboratory Testing

A member of our staff will supervise the drilling activities and visually classify the soil samples in general accordance with ASTM D2488, the Standard Practice for Description and Identification (Visual-Manual Procedure). Based on the anticipated conditions, we plan to perform the following laboratory tests on select samples:

- Natural Moisture Content (Soil), ASTM D2216
- Atterberg Limits, ASTM D4318



- Unconfined Compression Tests, ASTM D2166

Engineering Evaluation and Report

After our analyses are complete, we will issue a written report describing the exploration and outlining our recommendations. The report will include the following:

- Our understanding of the planned project,
- A summary of existing site conditions, site geology, and topography,
- Records of field tests outlining the materials encountered at the test locations,
- Results of laboratory tests performed to provide information regarding the engineering characteristics of the subsurface materials,
- Recommendations for foundation type including allowable bearing pressure and depth,
- Values for axial capacity and L-Pile parameters for signal pole foundations,
- Recommendation for seismic soil site class utilizing field and laboratory test results, and
- Groundwater concerns, if encountered.

CLIENT RESPONSIBILITIES

To assist with fulfilling our proposed scope of services, GTEC requests the following:

- Plans and Specifications: GTEC has been provided with preliminary drawings for the light pole locations and information. GTEC requests the client send updated drawings as the project progresses.
- Field Work Scheduling and Site Access: GTEC requests the client provide any field work scheduling restrictions for the site, such as certain operational hours of the site, special security and/or administration hours, or other restrictions limiting field work. GTEC also requests the client provide any special instructions for site access, such as gates, property owner coordination, clearing concerns, or any other site access concerns limiting GTEC personnel and subcontractors from accessing the site.
- Private Utilities: GTEC requests the client send current private site utility drawings or coordinate approval of proposed test locations with property owner prior to field work.

FEE AND SCHEDULE

At this time, we propose our services described for the fees listed in the following table:

| Services | Fee Type | Fee |
|---------------------------------|----------|-------------|
| Engineering Analysis and Report | Lump Sum | \$15,940.00 |

Services not included in the scope can be added at our prevailing unit rates. We will schedule field activities upon receipt of this contract authorized by signature below and provide the



planned dates of services. Final reports will be issued within four to six weeks of authorization. This proposal is valid if accepted within 60 days of issuance.

AUTHORIZATION

Should this proposal meet your objectives, please sign, date, and return. Signed authorization will constitute acceptance of the fee, schedule, and General Terms and Conditions, which are included with this proposal. Any modification to this proposal, the fee, schedule, or General Terms and Conditions must be accepted by both parties.

To Authorize this Proposal, please sign below:

Paul Finley, Mayor
Printed Name/Title

City of Madison, AL, a municipal corporation
Company Name

Signature

100 Hughes Road, Madison, AL 35758
Billing Address

December , 2024
Date

ap@madisonal.gov
Accounts Payable Email Address

CLOSING REMARKS

We appreciate this opportunity to be of service and look forward to working with you on this project. If you have any questions regarding this proposal or would like to discuss the proposed scope and budget, please do not hesitate to contact GTEC.

Respectfully,
GTEC

Kathleen Bernal, E.I.
Staff Engineer

Rachel T. Finch P.E.
Senior Engineer

Attachments: General Terms and Conditions