Cartersville School System

REQUEST FOR PROPOSAL

February 9, 2021

Dear Sir or Madam:

The Cartersville School System invites you to submit a proposal on the following items.

Provide Geo Technical Services for the following locations:
Cartersville High School, 320 East Church Street, Cartersville, Georgia
New Cartersville Primary School, 200 Carter Grove Blvd SE, Cartersville, Georgia

Return your sealed pricing bid clearly marked **on the outside of the envelope or package to:**

Cartersville School System
RFP #9009-0209-139 ENCLOSED
P.O. Box 3310, 15 Nelson Street
Cartersville, Georgia 30120

no later than 2:00 p.m., Tuesday, March 9, 2021.

The Cartersville School Board reserves the right to accept and/or reject any and all bids.

We invite your participation.

Respectfully,

Richard Dyke
Chief Financial Officer

Enclosures

RFP # 9009-0209-139

PROPOSAL FORM

Please include this cover sheet as (page 1) of your proposal

Cartersville School System
P.O. Box 3310
15 Nelson Street
Cartersville, Georgia 30120

We have carefully examined and fully understand the Instructions to Bidders and other documents found in the specifications as prepared by you.

We propose to enter into a contract to furnish the materials and deliver services as specified at the price listed below. We also assure you that a company representative will be readily available to assist in reviewing the materials and services.

Geo Technical Services for the following locations:
Cartersville High School, 320 East Church Street, Cartersville, Georgia
New Cartersville Primary School, 200 Carter Grove Blvd SE,
Cartersville, Georgia

$ _____

_____
Name of Company

_____
Signature of Company Representative Authorized to Submit this Proposal

_____
Printed Name of Representative

_____
Business Address/ Street, City, State, Zip Code

_____ _____ _____
Phone Number Fax Number Email

Office use only

INSTRUCTION TO BIDDERS

1. Proposals are due no later than 2:00 PM., Tuesday, March 9, 2021, and shall be opened publicly at that time.

2. **Proposals must be submitted on the forms enclosed**. Bidders may attach other appropriate information to best evaluate the proposal.

3. Proposals must meet the requirements relating to all Georgia Department of Education guidelines.

4. The Cartersville City School Board reserves the right to accept or reject any and all proposals.

5. Payment will be made within 30 days of the completion of project.

6. Proposals will be evaluated on price and completion date.

7. Contractor must provide a copy of **Certificate of Liability Insurance, E-Verification number, Workers Compensation Insurance and a W-9 form.**

8. Further information regarding the RFP can be obtained by email only:

Ken Paige
Director of Operations
Cartersville City Schools
kpaige@cartersvilleschools.org

GEOTECHNICAL REQUIREMENTS

QUALIFICATIONS:

The geotechnical firm shall be a professional consulting firm with the Project Engineer being a Registered Engineer in the state of the proposed project.

A. Subsurface Investigation - The site drilling and sampling of this project shall be performed by accepted engineering practices and accordance with ASTM D 1586, at the locations specified by the boring location plan and to the depths indicated or based on engineering judgment of the geotechnical engineer upon their site reconnaissance. Elevations shall be taken at the ground surface of each boring location. The boring depths should also take into consideration anticipated cut/fill associated with the proposed development. If grades are not provided then the geotechnical engineer shall use their best judgment to determine how the property will be cut and/or filled. All borings shall be backfilled by the Geotechnical Engineer with like material.

If any of the following conditions are encountered during the boring operation, **the Design Engineer and owner should be contacted immediately:**

1. Presence of rock (auger refusal before required boring depth). If rock is encountered during testing the boring location should be offset five (5) to ten (10) feet to determine if the rock is an isolated boulder or bedrock.
2. Soft or unsuitable soil.
3. Presence or buried organics, trash, underground tank or other structures.

After being contacted, further action will be discussed and recommended before the drill rig and crew leave the site, including additional borings to better determine potential design solutions.

B. Engineering Analysis - The soils report shall include, but not necessarily be limited to:
   1. Estimated subsoil conditions and ground water levels within the site area.
   2. Foundation recommendations for support of the proposed structures, including a recommended allowable bearing pressure and estimated foundation settlements for shallow spread footings founded on compacted structural fill or natural soils. Provide at least two alternate recommendations, which consider both time and costs in which shallow foundation systems are not practical. The recommendations would include data obtained from consolidations test.
   3. Recommended Minimum floor slabs thickness.
   4. Recommendation for removal and/or reconditioning of unsuitable soils. Evaluating of subsoil conditions are subject to removal or reconditioning. Construction recommendations and description of unusual soil conditions (including location and coverage) encountered.

5. Concrete pavement and asphaltic concrete pavement designs for heavy duty and standard duty sections. Pavement designs shall include corresponding structural numbers for the heavy duty and standard duty sections. Pavement designs shall also include the project's State Department of Transportation designations for base course, binder course and wearing surfaces. These recommendations should be based on the CBR tests conducted during the initial investigation. The Geotechnical Engineer shall submit applicable sections of State Department of Transportation specifications with each completed geotechnical report. Further defined as follows:

   Both asphalt and concrete pavement sections shall be designed by geotechnical engineer for a thirty 30 year design life for 5 loaded tractor trailers per day & 2,500 cars per day.

   Concrete design recommendations should also be provided for sidewalks and pads for transformers, dumpsters, and mechanical equipment.

6. When rock is encountered, recommendations shall be provided that clearly identifies whether or not material can be ripped or will require blasting. Recommendations should also include the need for pre-blast surveys.
7. Determine pH levels of soils
8. Determine internal friction angle of soils to be utilized for slopes and retaining walls.
9. Determine natural (in-situ) moisture content of existing soils.
10. Provide Proctor Curve Analyses for onsite soils.
11. In jurisdiction that requires the use of the International Building Codes (IBC), determine the soils classification as prescribed by Chapter 16, Structural Design of the IBC.

C. Seismic Design Category

Determine the Site Classification and Site Design Category per Chapter 16 of the International Building Code (IBC). Provide the Site Classification, IBC ground motion values for 0.2 and 1.0 second periods including Mapped Spectral Response Accelerations, Site Coefficient Values, Adjusted MCE Spectral Acceleration, and Seismic Design Spectral Response Accelerations Coefficients. Boring depths shall be extended as needed to provide seismic design category.

Provide a separate contingency cost for in-situ seismic testing if the initial geotechnical data indicates that the Site Design Category will be a "D" or lower. The contingency cost should include all cost for providing an initial review of the available conventional geotechnical data to determine if the additional seismic testing is justified, the cost for determining the subsurface soils shear wave velocities to a depth of 100 feet, and the additional analysis required to determine if the Site Design Category can be revised to a "C" or better.

D. Design Standards Summary:

1. Provide Seismic Site Class per International Building Code.
2. Allowable bearing pressure(s).
3. Estimated differential settlements. Provide recommendations to limit to ¾" total settlement and to ½" differential settlement.
4. Vapor barrier and granular base under floor slab recommendations.
5. Retaining wall design values, including:

A. Active pressure.

B. Passive pressure.

C. At-rest pressure.

D. Coefficient of friction.

6. Frost depth and minimum foundation bearing depth.
7. Definitions of "Satisfactory" and "Unsatisfactory" soil materials. The most commonly used are as follows:

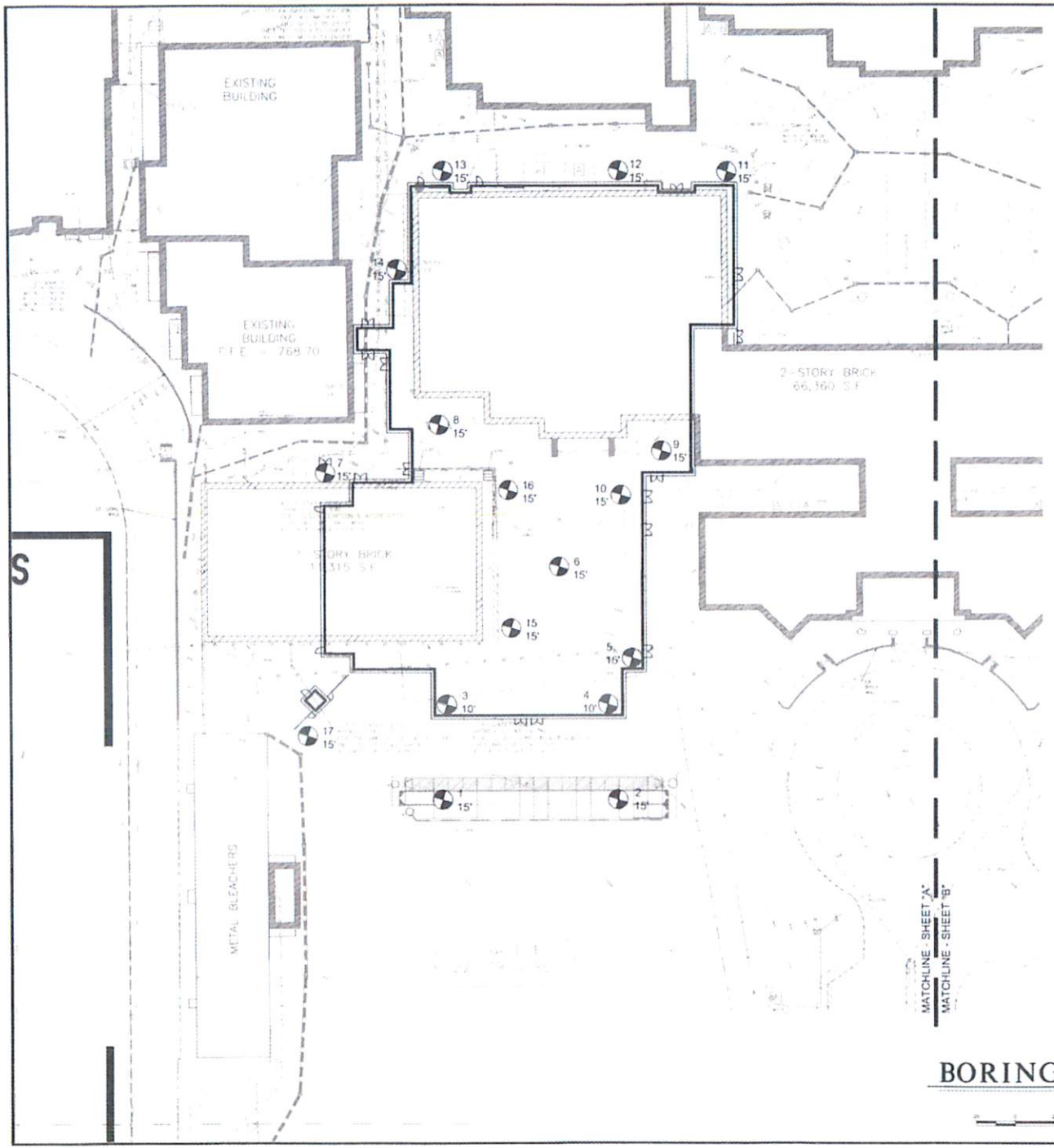
   A. ASTM D 2487 soil classification groups.

   B. Plasticity soil index in accordance with Atterberg Limit Test.
8. Statement on whether excavated on site soil material is suitable for fill.
9. Allowable variation from optimum moisture content backfill.
10. Maximum depth of layer of loose fill to be compacted.
11. Compaction requirements, as follows:

    A. Appropriate ASTM testing procedure (D 698 or D 1557).

    B. For specific areas such as footings, foundations, slabs-on-grades, paved (parking, sidewalk, and drives) areas and grass areas.

    C. Testing frequency at such areas as footing subgrades, paved areas, building slab areas and trench backfill.
12. Bituminous and concrete paving designs.
13. Potential water problems, including anticipation and management of groundwater.



BORING PLAN

VICINITY MAP

BORING LEGEND

BORE NUMBER
BORE TO DEPTH (FT.)

GEORGIA811
www.Georgia811.com
Contact 811 before you dig.

ROBERTSON LOIA ROOF
ARCHITECTS & ENGINEERS

THIS REPRODUCTION IS NOT A CERTIFIED DOCUMENT

Cartersville High School
Additions and Renovations - Phase II
Cartersville City Schools

BORING PLAN

02-02-21

19357

2C-BP

EX-1	19356	04/30/2021	BORING EXHIBIT		ROBERTSON LOIA ROOF ARCHITECTS & ENGINEERS