



SOLID GROUND
CONSULTING ENGINEERS, PLLC
Engineering Innovation; Providing Solutions to Your Challenges.

March 5, 2020

Henderson Co. Public Schools
Mrs. Marganna Stanley, Superintendent
1805 2nd Street
Henderson, KY 42420

Subject: **Proposal for Special Inspections and Quality Control Services
Jefferson Elementary School
Henderson, Kentucky**

Dear Mrs. Stanley,

Solid Ground Consulting Engineers, PLLC (Solid Ground) are pleased to provide you with this proposal for the Special Inspections and Quality Control Services. This proposal details project information, proposed scope of services, schedule and estimated cost.

Project Description and Location

The new building is to be located at 800 South Alves Road in Henderson, Kentucky. The proposed structure is approximately 75,000 square feet in size. with a separate sports pavilion. The proposed structure will consist of a conventional spread foundation system bearing upon chemically modified residual native soils. The structure will utilize reinforced masonry load bearing walls and a structural steel framework. Mass site grading is anticipated to achieve the design grades.

Insurance

We have attached a copy of our insurance certificate to this proposal. Our current coverages met or exceed those listed in the RFP.

Proposal Requirement and Evaluation

Unit Rates

We have attached a copy of our rate sheet to this proposal.

Company History

Solid Ground Consulting Engineers was founded in 2014. During the first years of the company Solid Ground quickly began to make a name for itself as a Geotechnical Engineering company specializing in geotechnical design and analysis, deep foundations, complex subsurface issues, bridge foundations, Karst (sinkholes) related concerns, site development, special inspections and slope stability issues. Solid Ground has grown successfully with top performing team members providing solutions to challenging problems. Solid Ground is providing services to several clients such as educational, private and energy sectors. Solid Ground is currently moving forward with offices in varying states.

References

Hardin County Schools

Joe Stuecker - Director of Building and Grounds

Office – (270)-769-8880

The University of Kentucky – Capital Construction Project Management

Raymond Haunsz – Senior Project Manager III

Office – 859-218-3107

Email – rahaun2@email.uky.edu

Madison County Schools

Charles “Chuck” Cash – Chief Operations Officer

Office - 859-625-6030

Email - Charles.cash@madison.kyschools.us

Project Approach/Why Solid Ground

Solid Ground has a unique approach that is well suited for projects of any size and complexity. **“Relationships matter”** - This is the vision and mission statement of our company. This simple yet dynamic statement has grown into a company culture that in turn has served our clients, industry partners, and overall business over the last 5 years and has allowed us to see remarkable growth and numerous repeat clients. To illustrate this, we recently began to cultivate a relationship with Hardin County Schools (prior to this

proposal), as they approached our firm in regard to a settlement issue, exhibited at a Fieldhouse at one of the local schools. Solid Ground immediately began to gain the necessary information from school personnel and conducted a site visit to observe the settlement, during this time our team members began working with the school to determine the most economical approach and schedule to complete our services. We are committed to a successful client relationship which takes time and dedication, the two cornerstones to our success. We are also dedicated to the following methods in an effort to showcase our desire to make this project very successful:

Daily Field Reports – Recent software acquisition makes it possible for our reports to be available before our technicians leave the site.

Available workforce – The timing of these schools is perfect for our technicians, as we currently have several projects finishing.

Scope of Services

We will perform Special Inspections and materials testing services for this project in accordance with the International Building Code (IBC), with KY Amendments, project plans and section 01 4110 of the project specifications.

Based on the project plans the following services will be performed:

Concrete (KBC 1705.3)

- ▲ Verify use of the required design mix.
- ▲ Observe reinforcing steel, as well as anchor bolts, during foundations and slab on grade construction.
- ▲ Placement of cast in place bolts or other embedded anchors prior to and during concrete placement.
- ▲ Sample and perform tests on plastic concrete in the field which includes slump, air content, temperature, and other tests required by the project specifications.
- ▲ Review of placement and curing techniques of the fresh concrete.
- ▲ Make 4 by 8 inch concrete cylinder specimens for compressive strength testing.
- ▲ Hydrate, test, and report concrete cylinder test specimens as required by the specifications.

Reinforced Masonry (KBC 1705.4)

- ▲ Observe the consistency of site-prepared mortar; placement of masonry units and the construction of mortar joints and location of reinforcement and connectors.
- ▲ Verification of size and location of structural elements, type, size and locations of anchors including details of anchorage of masonry to structural members, frames of other construction.
- ▲ Verify prior to grouting to ensure grout space is clean
- ▲ Observe placement of grout.
- ▲ Observe construction of structural elements; to verify proper size, grade and type of

reinforcement and protection of masonry during cold weather or hot weather.

- ▲ Observe construction to verify type, size grade and location of anchors.
- ▲ Observe preparation of required grout specimens and/or mortar specimens. These samples will be made on a daily basis during the Reinforced Masonry construction.

Steel Construction (KBC 1705.2)

- ▲ Verification per Table N5.4-1 prior to welding
- ▲ Verification per Table N5.4-2 during welding
- ▲ Verification per Table N5.4-3 after welding
- ▲ Verification per Table N5.6-1 prior to bolting
- ▲ Verification per Table N5.6-2 during bolting
- ▲ Verification per Table N5.6-3 after bolting
- ▲ Testing services per project specifications.

Soils (KBC 1705.6)

- ▲ Observe materials below shallow foundations and grade beams to verify foundation remediation is in accordance with plans and specifications.
- ▲ Observe that foundation bearing conditions are in compliance with the recommendations contained in the requirements set forth in the project plans, specifications, and the geotechnical report.

Light Gage Steel Truss Inspections (KBC 1705.2.2)

- ▲ In accordance with 2012 IBC/2013 KBC Section 1705.2.2 and the Statement of Special Inspections in the design documents including:
 - ▲ Verify truss placement
 - ▲ Verify proper installation of permanent bracing.
 - ▲ Verify installation of truss hurricane clips
 - ▲ Verify installation of light gage framing attached to trusses
 - ▲ Verify attachment of roof sheeting
 - ▲ Testing services per project specifications.

Site Related Testing

- ▲ Site Work specifications reference Kentucky Transportation Cabinet's Standard Specifications for Road and Bridge Construction, latest edition (KDOT Specs) for earthwork, concrete placement and asphalt placement.
- ▲ Earthwork compaction shall be tested in accordance with Section 206.03.03 of the KDOT Specs.
- ▲ Concrete shall be tested in accordance with Section 601.03.02 of the KDOT Specs.
- ▲ Asphalt shall be tested in accordance with Section 402.03 of the KDOT Specs.



Schedule

We request a 24-hour notice prior to providing on-call personnel to enable us to schedule the work efficiently. Mr. Joey Daugherty will be the Project Manager for the project.

Compensation

Based on the scope of work detailed in this proposal, we propose **Lump Sum Fee of \$115,000.00** for providing the required Special Inspection Services on this project.

Project: Jefferson Elementary School

Location: Henderson, Kentucky

FEE ESTIMATE PROVIDED BY SOLID GROUND CONSULTING ENGINEERS

Description	Quantity	Unit	Hours/Day	Hourly Cost	Total	Total Hours
Earthwork (Building pad, site, and Lime Stabilization)						
Engineer	2.0	Trips	8	\$ 75.00	\$ 1,200.00	16
Technician	30.0	Trips	8	\$ 55.00	\$ 13,200.00	240
Subtotal					\$ 14,400.00	256
Foundations (Concrete Foundations and Aggregate Piers)						
Engineer	2.0	Trips	8	\$ 75.00	\$ 1,200.00	16
Foundations	55.0	Trips	8	\$ 55.00	\$ 24,200.00	440
Subtotal					\$ 25,400.00	456
Slab (FF/FL, Sample Pick-up, onsite testing)						
Project Manager	1.0	Trips	8	\$ 75.00	\$ 600.00	8
Technician	18.0	Trips	8	\$ 55.00	\$ 7,920.00	144
Subtotal					\$ 8,520.00	152
Masonry						
Technician	70.0	Trips	8	\$ 55.00	\$ 30,800.00	560
Subtotal					\$ 30,800.00	560
Steel						
Technician/CWI	15.0	Trips	8	\$ 70.00	\$ 8,400.00	120
Subtotal					\$ 8,400.00	120
Site Testing						
Technician	30.0	Trips	8	\$ 55.00	\$ 13,200.00	240
Subtotal					\$ 13,200.00	240
Laboratory						
Compressive Strength of Cylinders	73	Set		\$ 40.00	\$ 2,920.00	
Grout Prisms	70	Set		\$ 60.00	\$ 4,200.00	
Proctor	3	Each		\$ 185.00	\$ 555.00	
Subtotal					\$ 7,675.00	
Staff						
Project Manager (Meetings)	10	Trips	6	\$ 75.00	\$ 4,500.00	
Subtotal					\$ 4,500.00	
TOTAL ESTIMATED LUMP SUM FEE					\$ 112,895.00	1784
Say					\$115,000.00	



Authorization

Please sign the attached Proposal Acceptance Sheet and return one complete original of the proposal to us. This will act as authorization to proceed.

Payment Terms

The client understands that we will be compensated for performing the services in accordance with the scope of work detailed in this proposal. Invoices will be issued on a bi-weekly basis. The client agrees to pay all charges not in dispute within 30 days of receipt of the invoice and recognizes that charges not paid within 30 days are subject to a late payment charge of 1.5 percent. The Client shall provide notification within 10 days of receipt of the invoice should the invoice contain charges the Client intends to dispute.

Summary

We appreciate the opportunity to provide this proposal to perform engineering services. We can begin work immediately upon our acceptance of this proposal. If you have any questions we would be glad to address them. If this proposal is acceptable as written, please have the person responsible for payment sign one copy and return it to our office. That will be our indication to begin work. Once again, thank you for considering our firm for this project.

Very Truly Yours,

SOLID GROUND CONSULTING ENGINEERS, PLLC



Tim McClure

Partner, Regional Manager



Vance Mitchell

Partner / Business Development



ACCEPTANCE

Signature of Property Owner or Agent

Date

Print Name & Title

Address For Billing:

