



November 8, 2024

Hopkins Co Board of Education
c/o Derek Brooks, SCB Architects
2135 North Main Street
Madisonville, KY 42431

Re: Hopkins County Schools Board Office
Addition and Renovation
Special Inspections Proposal

Dear Mr. Brooks:

Bacon Farmer Workman Engineering & Testing, Inc. (BFW) is pleased to provide you with a proposal for Special Inspections for the above referenced project. Special Inspections are for seismic and structural related items within the building parameters. These NTE Fees are based on rates per our current fee schedule and includes labor, overhead and profit, along with equipment, mileage, project management, and administrative tasks. This proposal is based on testing services between the hours of 7:00 am and 4:00 pm, Monday thru Friday. The monthly invoicing will follow our current fee schedule and includes the following scope of work:

- **Main Renovation - \$14,700 for (19) site visits**

1. (1) site visit for compaction testing of subgrade stone for the proposed building pad, using a Troxler Nuclear Density Gauge
2. (6) site visits for foundation, pier, and stemwall placements (includes bearing verification, reinforcing steel inspection and concrete sampling)
3. (1) site visit for interior slab-on-grade placement (includes reinforcing steel inspection and concrete sampling); one for the garage, one for the center addition, and one for the PEMB.
4. (6) site visits for cylinder retrieval when the following placement does not occur within 24 - 48 hours of previous placement
5. (3) site visits for structural steel inspections (includes post-installation bolt verification, attachments of structural framing, visual inspection of field welded connections, and decking, and verification of welder certifications / welding procedure specifications)
6. (2) site visits for seismic inspection of suspended ceiling grid & related components, per Category "D" requirements
7. (1) site visit for inspection of seismic MEP & related components, per Category "D" requirements
8. Distribution of daily inspection reports and cylinder compressive strength reports
9. Final Letter of Compliance for Special Inspections upon acceptable completion of the project.

- **PEMB - \$9,950 for (14) site visits**

1. (1) site visit for proofroll of existing subgrade for PEMB prior to placement of approved fill material.
 2. (1) site visit for compaction testing of subgrade stone for the proposed building pad, using a Troxler Nuclear Density Gauge
 3. (5) site visits for foundation, pier, and stemwall placements (includes bearing verification, reinforcing steel inspection and concrete sampling)
 4. (1) site visit for interior slab-on-grade placement (includes reinforcing steel inspection and concrete sampling); one for the garage, one for the center addition, and one for the PEMB.
 5. (3) site visits for cylinder retrieval when the following placement does not occur within 24 - 48 hours of previous placement
 6. (1) site visit for pre-installation bolt verification testing for high strength structural bolts using a Skidmore-Wilhelm Tension Measuring Device.
 7. (2) site visits for structural steel inspections (includes post-installation bolt verification, attachments of structural framing, visual inspection of field welded connections, and decking, and verification of welder certifications / welding procedure specifications)
 8. Distribution of daily inspection reports and cylinder compressive strength reports
 9. Final Letter of Compliance for Special Inspections upon acceptable completion of the project
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- **Garage Addition - \$9,825 for (13) site visits**

1. (3) site visits for foundation, pier, and stemwall placements (includes bearing verification, reinforcing steel inspection and concrete sampling)
 2. (1) site visit for interior slab-on-grade placement (includes reinforcing steel inspection and concrete sampling); one for the garage, one for the center addition, and one for the PEMB.
 3. (5) site visits for CMU wall placements for the garage (includes reinforcing steel inspection and mortar/grout sampling)
 4. (2) site visits for cylinder retrieval when the following placement does not occur within 24 - 48 hours of previous placement.
 5. (2) site visits for structural steel inspections (includes post-installation bolt verification, attachments of structural framing, visual inspection of field welded connections, and decking, and verification of welder certifications / welding procedure specifications)
 6. Distribution of daily inspection reports and cylinder compressive strength reports
 7. Final Letter of Compliance for Special Inspections upon acceptable completion of the project
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All testing will be conducted in-house with inspectors that are ACI Level 1, Troxler Nuclear Density Certified, AWS-CWI and/or ASNT Level II. Furthermore, our laboratory is nationally accredited by AASHTO / CCRL R-18 and validated by Army Corp of Engineers.

This proposal does not include fabricator site visits for shop inspections or Floor Flatness & Levelness testing for the interior slab-on-grade. BFW can provide these services at our standard rate fee.

Any testing outside of the proposed scope of work will be invoiced at our standard rate fee. This includes re-inspection of work that was previously rejected or incomplete.



This proposal is based on information provided to BFW at the time of submittal and the estimated site visits and associated fees are based on BFW's experience with similar projects.

If you agree with the above referenced proposal, please provide a PO# or written notification to our office. Should you need additional information please contact our office at (270) 443-1995.

Sincerely,
Bacon Farmer Workman Engineering & Testing, Inc.

A handwritten signature in black ink that reads "Danny Dowell". The signature is written in a cursive, slightly slanted style.

Danny Dowell

Authorization to Proceed: _____
Signature Date

Bacon Farmer Workman Engineering & Testing, Inc.

2024 Testing & Inspection Fees

Concrete / Asphalt / Grout / Mortar / Special Inspections

Concrete Field Testing

Concrete Technician (ACI Level 1)	\$69.00 /hr**
Basic Concrete Testing Included with hourly rate:	
Slump	
Air Content (Pressure Meter)	
Temperature	
Cylinder Molding (not including molds)	
Unit Weight/Yield	\$15.00 /test
Cylinder Molds (6" & 4") - Single Use Plastic	\$3.75 /mold
Floor Flatness/Floor Levelness (FF/FL), \$500 min.	\$0.08 /ft ²
Vapor Emission Test Kits	\$25.00 /each
Concrete Coring (Slab) - with access to elect.	
Includes Equipment, 4" Dia. Bit, \$250 min.	\$20.00 /inch
Generator - for sites without access to electricity	\$65.00 /day
Concrete Moisture Vapor Testing	\$90.00 /hr**
Consumables at cost plus 15%	
Mileage	\$0.75 /mile

Asphalt Field Testing

Field Technician	\$69.00 /hr**
Nuclear Density Gauge	\$45.00 /day
Asphalt Coring - with access to electricity	
Includes Equipment, 4" Dia. Bit, \$250 min.	\$20.00 /inch
Generator - for sites without access to electricity	\$65.00 /day
Mileage	\$0.75 /mile

Fill Density Testing/Bulk Sampling

Technician (Troxler Trained)	\$69.00 /hr**
Nuclear Density Gauge	\$45.00 /day
Sand Cone	\$20.00 /day
Dynamic Cone Penetrometer & E-Rod	\$20.00 /day
Bulk Sampling (Soil/Aggregate)	\$69.00 /hr**
Mileage	\$0.75 /mile

Concrete/Grout/Mortar

Length of Cores - Vernier Method (C174)	\$30.00 each
Specific Gravity Absorption, Voids (C642)	\$40.00 each
Compressive Strength	
Cylinders (C39) (flat/smooth top)	\$20.00 each
Spare Cylinders	\$12.00 each
Drilled Cores - Trimmed & Tested (C42)	\$45.00 each
Flexural Strength	
Center Point Load (C293)	\$40.00 each
Splitting Tensile Strength (C496)	\$50.00 each
Moisture Content	\$13.00 each
Cut/Prep Concrete Core Specimen	\$45.00 each
Cut/Prep Concrete Cylinder Specimen	\$45.00 each
Supplies	
Plastic Cylinder Molds (6" & 4") (24 Per Case)	\$90.00 /case
Mix Design	\$500.00 /design

Grout/Mortar Field Testing

Technician (ACI Level 1)	\$69.00 /hr**
Basic Grout/Mortar Testing Included in hourly rate:	
Slump	
Flow	
Cylinder/Cube Molding (not including molds)	
Cylinder Molds (4"x8") - Single Use Plastic	\$3.75 /mold
Mileage	\$0.75 /mile

Special Inspections

Special Inspections - Seismic Only	\$90.00 /hr**
Reinforcing Steel Inspection	
Foundation/Subgrade Inspection	
Structural Steel Inspection	
Light Gauge Metal Framing Inspection	
Welding (Visual)	
Masonry/Mortar/Grout	
Fireproofing (Thickness/Density/Bond)	
Suspended Ceiling Grid System	
Seismic MEP Inspection	
Fabricator Shop Inspection	
Mileage	\$0.75 /mile

Non-Destructive Testing (NDT)

Phased Array Ultrasonic (PAUT)	\$125.00 /hr**
PAUT Equipment and Consumables	\$325.00 /visit/shift
Ultrasonic Testing (UT)	\$100.00 /hr**
UT Equipment and Consumables	\$68.00 /visit/shift
Magnetic Particle (MT)	\$90.00 /hr**
MT Equipment and Consumables	\$68.00 /visit/shift
Liquid Penetrant (PT)	\$90.00 /hr**
PT Equipment and Consumables	\$68.00 /visit/shift
Visual Inspection (VT)	\$90.00 /hr**
Bolt Verification Testing	\$90.00 /hr**
Skidmore-Wilhelm Device	\$68.00 /visit/shift
Structural Steel Inspection	\$90.00 /hr**
Fabricator Shop Inspection	\$90.00 /hr**
*Mileage	\$0.75 /mile

Important Notes

** Standard Rates are for Monday - Friday, 7 am - 4 pm, Overtime rates apply prior to 7 am and after 4 pm, Monday - Friday, along with all time for Saturday (unless other arrangements have been made); Premium overtime rates apply to Sundays and Holidays.

Testing & Inspection Daily Equipment Charge of \$32.00 will be applied to each day's site visit. Site Visits subject to 4 hour min.

Schedule is effective January 1, 2024 thru December 31, 2024

Effective 1/1/2023, testing services for projects in Kentucky are subject to Kentucky Sales & Use Tax unless the buyer of such services timely provides a Kentucky Department of Revenue Purchase Exemption Certificate.

Bacon Farmer Workman Engineering & Testing, Inc.

2024 Laboratory Testing Fees Subsurface Drilling / Sampling Soil / Aggregate / Concrete / Asphalt



Subsurface Drilling/Sampling Services

Drilling	
Hollow stem (incl. backfilling/in-situ soil):	
Depths 0-50 ft.	\$15.00 /LF
Depths over 50 ft.	\$18.00 /LF
Mud Rotary	\$20.00 /LF
Rotary Set Up (each location)	\$200.00 /boring
Rock Coring 2" Dia. Core (NQ2-Wireline)	\$42.00 /LF
Rock Coring Set Up (each location)	\$200.00 /boring
Sampling	
Undisturbed (Shelby Tube Samples)	\$82.00 /each
Disturbed (Splitspoon Samples)	\$18.00 /each
Water Hauling On Site	\$225.00 /day
Water Hauling Off Site	\$325.00 /day
Water Pump	\$200.00 /day
Drilling Rig Mobilization	\$4.25 /mile
Support Truck	\$79.00 /day
Support Truck Mileage	\$1.25 /mile
Field Documentation (Boring/Core Logs)	\$12.00 /boring
Borehole Backfilling (other than in-situ soil)	\$20.00 /boring
Borehole Grouting	\$9.00 /LF
Stand By Time	\$225.00 /hr
Borehole Layout	\$93.00 /hr

Index, Texture and Density Properties - Soil

Moisture Content (D2216)	\$12.00
Moisture Content with Rimac	\$17.00
Atterberg Limits (D4318), Plasticity Index	\$85.00
Shrinkage Limit (D427)	\$85.00
Specific Gravity (D854)	\$105.00
Particle -Size Analysis (D422, D1140)	
Sieve & Hydrometer (cohesive soils)	\$190.00
Hydrometer Only	\$105.00
Sieve Only - thru No. 200 (granular soils)	\$85.00
200 Wash	\$62.00
Compaction Characteristics	
Standard Proctor - 5 Points (D698)	\$200.00
Modified Proctor - 5 points (D1557)	\$225.00
One Point Verification (D698, D1557)	\$125.00
Lime/Cement Powder Proctor (D558)	\$250.00

Identification and Classification - Soil

USCS Classification (D2487)	
Cohesive Soils (incl. D422, D2216, D4318)	\$275.00
Granular Soils (incl. D422, D2216)	\$96.00
Visual Description	
Quick-jar	\$21.00
Shelby Tube - log, moisture, extrusion	\$45.00
Minimum Resistivity (T288)	\$160.00
pH (T289)	\$30.00
Expansion Index of Soils (ASTM D4829)	\$185.00

Miscellaneous

Lodging	Actual Cost
Photographs	\$1.00 / each
Mileage	\$0.75 / mile
Meals per diem	\$51.00 / day
ATV	\$125.00 / day

Structural Properties - Soil

Unconfined Compression (D2166)	\$85.00
One-Dimensional Consolidation (D2435)	
E log p curve, Time-settlement curves	\$450.00
Rebound and Reload - additional	\$175.00
One-Dim. Swell or Settlement Potential (D4546)	
Swell Pressure	\$263.00
Percent Swell	\$263.00
California Bearing Ratio, CBR (D1883)	\$430.00
each additional point	\$105.00
Direct Shear Testing, per 3 pts	
Direct Shear, Drained	\$475.00
Triaxial Testing, per 3 points	
Unconsolidated - Undrained (Q, UU), (D2850)	\$350.00
Consolidated - Undrained (R, CU), (D4767)	\$975.00
Additional point	\$325.00
Remolding Specimens, per set of 3	\$185.00

Hydraulic Properties - Soil

Laboratory Hydraulic Conductivity (Permeability)	
Flexible-Wall, cohesive Soils (D5084)	
Undisturbed	\$350.00
Remolded	\$430.00
Rigid-Wall, Granular Soils (D2434)	\$150.00

Rock

Compressive Strength (D2938)	\$79.00
Splitting Tensile Strength (D3967)	\$89.00
Cut/Prep Core Specimen (D4543), per foot	\$5.00

Concrete & Asphalt Aggregates

Moisture Content (C566)	\$27.00
Bulk Density (Unit Weight) (C29)	\$75.00
Density, Specific Gravity, Absorption	
Coarse Aggregate (C127)	\$85.00
Fine Aggregate (C128)	\$100.00
Particle-Size Analysis (Sieve Only) (C136)	
Coarse Aggregate (6 Sieves)	\$75.00
Fine Aggregate (6 Sieves)	\$75.00
Organic Impurities (C40)	\$50.00
Materials Finer than No. 200 Sieve (Wash) (C117)	\$75.00
Lightweight Particles in Aggregate (C123)	\$131.00
Clay Lumps, Friable Particles in Agg. (C142)	\$63.00
Flat, Elongated Particles (Coarse Agg.) (C4791)	\$175.00
Percentage of Fractured Particles (Coarse) (C5821)	
One-Face	\$75.00
Two-Face	\$85.00
Aggregate Proctor (D698 / D1557)	\$250.00

Asphalt

Bulk Specific Gravity (SSD) - (Core)	\$40.00
Thickness Determination (Lab) - (Core)	\$25.00

Important Notes

Other: Rush Charge at 1.5 multiplier
Schedule is effective January 1, 2024 thru December 31, 2024
Effective 1/1/2023, testing services for projects in Kentucky are subject to Kentucky Sales & Use Tax unless the buyer of such services timely provides a Kentucky Department of Revenue Purchase Exemption Certificate.



2024 Professional Services Fee Schedule

Principal	\$ 215.00 / hour
Transportation/Civil/Structural	
Landscape Architect	\$ 135.00 / hour
Project Manager/Engineer - Senior	\$ 185.00 / hour
Project Manager/Engineer II	\$ 168.00 / hour
Project Manager/Engineer I	\$ 148.00 / hour
Project Engineer II	\$ 145.00 / hour
Project Engineer I	\$ 130.00 / hour
Staff Engineer	\$ 118.00 / hour
Design Manager	\$ 125.00 / hour
Designer - Senior	\$ 123.00 / hour
Designer II	\$ 120.00 / hour
Designer I	\$ 108.00 / hour
Drafter II	\$ 78.00 / hour
Drafter I	\$ 72.00 / hour
Landscape Designer	\$ 100.00 / hour
Senior Consultant	\$ 340.00 / hour
Project Administrator	\$ 100.00 / hour
Inspection - Air & Surface Transportation	
Resident Engineer	\$ 185.00 / hour
Assistant Resident Engineer	\$ 158.00 / hour
Phase III Technician	\$ 118.00 / hour
Inspection - Vertical Buildings	
Project Manager/Engineer - Senior	\$ 185.00 / hour
Inspector II/Chief	\$ 135.00 / hour
Inspector I/Senior Resident	\$ 110.00 / hour
Construction Administrator	\$ 118.00 / hour
Technician I (Special Inspections are \$90.00/hour)	\$ 69.00 / hour
Geotechnical & Laboratory Services	
Geologist II	\$ 135.00 / hour
Geologist I	\$ 93.00 / hour
Lab Manager	\$ 100.00 / hour
Technician I	\$ 69.00 / hour
Driller	\$ 95.00 / hour
Reproduction - Fees	
Full Size Copies - 24" x 36"	\$ 1.00 / sheet
11" x 17" Copies	\$ 0.75 / sheet
Full Size Mylars	\$ 10.00 / sheet
Sepias	\$ 3.00 / each
Color Copies - 24" x 36"	\$ 10.00 / each
Color Copies - 18" x 24"	\$ 8.00 / each
Color Copies - 11" x 17"	\$ 2.00 / each
Color Copies - 8.5" x 11"	\$ 1.00 / each
Xerox Copies	\$ 0.10 / each
Aerial Photographs	\$ 60.00 / each
Scan Sheets	\$ 3.50 / sheet

Biological & Environmental Services	
Environmental Manager	\$ 185.00 / hour
Environmental Engineer	\$ 120.00 / hour
Environmental Scientist / Technician	\$ 90.00 / hour
GIS Specialist	\$ 115.00 / hour
Wetland Specialist	\$ 155.00 / hour
Asbestos Inspector / Lead Risk Assessor	\$ 115.00 / hour
Historical Preservation Specialist	\$ 155.00 / hour
Geospatial & Survey Services	
Project Manager/Engineer - Senior	\$ 185.00 / hour
Project Manager/Engineer I	\$ 148.00 / hour
Survey - Manager	\$ 130.00 / hour
Survey - Field Lead	\$ 100.00 / hour
Survey - Surveyor	\$ 85.00 / hour
GPS Crew - 1 Person	\$ 170.00 / hour
GPS Crew - 2 Person	\$ 255.00 / hour
Survey Crew - 2 Person	\$ 185.00 / hour
Survey Crew - 3 Person	\$ 270.00 / hour
Robotic Crew - 1 Person	\$ 155.00 / hour
Robotic Crew - 2 Person	\$ 240.00 / hour
Construction Staking	\$ 220.00 / hour
LiDar Instrumentation	\$ 7,500 / day
LiDar Operator	\$ 145.00 / hour
FAA Certified Remote Pilot and Drone	\$ 235.00 / hour
Data Processing & Extraction	\$ 145.00 / hour
3D Scanner	\$ 1,400 / day
3D Scanner Operator	\$ 100.00 / hour
Other Professional Services	
Senior Safety Professional	\$ 185.00 / hour
Safety Professional	\$ 160.00 / hour
Grants Coordinator	\$ 155.00 / hour
Administration	\$ 145.00 / hour
Clerical	\$ 75.00 / hour
Litigation Support	2 x Std Rate
Miscellaneous	
Lodging	Actual Cost
Photographs	\$ 1.00 / each
Mileage	\$ 0.75 / mile
Meals per diem	\$ 51.00 / day
ATV	\$ 125.00 / day

- Schedule is effective January 1, 2024 thru December 31, 2024
- Pre-approved overtime is 1.5 times rate. Sundays and Holidays at premium rates.