



PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.

City of Yonkers Public Schools
One Larkin Center- 3rd Floor
Yonkers, NY 10701

Attn: Lee Pavone, P.E.

May 19, 2022

RE: 11222.02
PROPOSAL FOR SPECIAL INSPECTIONS & MATERIALS TESTING SERVICES
RFP 420-22-14 GORTON HIGH SCHOOL- NEW ELEVATOR AND INTERIOR IMPROVEMENTS
YONKERS, NY

Dear Mr. Pavone,

Tectonic Engineering & Surveying Consultants P.C. is pleased to provide you with the enclosed unit rates and estimated NTE amount to provide special inspection and materials testing for the above referenced project located in Yonkers, NY. Our rates are provided in accordance with our term contract number 2022-0000364.

Our inspection and testing services are performed in accordance with all applicable ASTM and AASHTO guidelines; including the requirements of ASTM E329, Standards and Recommended Practices of Inspection and Testing Agencies. Our in-house material testing laboratory is AASHTO accredited and participants in the bi-annual AASHTO Materials Reference Laboratory (AMRL) and the Cement and Concrete Reference Laboratory (CCRL) laboratory inspection programs and is also accredited by the US Army Corp of Engineers.

Our staff of experienced inspection technicians are certified by the American Concrete Institute (ACI), International Code Council (ICC), National Institute for Certification in Engineering Technologies (NICET), the Northeast Transportation Technical Certification Program (NETTCP), the American Welding Society (AWS), the American Society of Non-Destructive Testing (ASNT), the Associated General Contractors of America for NYS Hot-Mixed Asphalt and the Pre-stressed Concrete Institute (PCI) to name a few. We understand that many of the Special Inspection items will overlap and occur concurrently with one another. Many of our inspection technician staff are cross-trained in conducting soils, rebar, concrete, asphalt and masonry inspections and field testing. This allows us to provide a single inspector to cover multiple tasks in one day, which often saves budgeted man-hours.

If you have any questions, please do not hesitate to call me at 845-563-9081 ext. 2612.

Sincerely,

TECTONIC ENGINEERING CONSULTANTS, GEOLOGISTS & LAND SURVEYORS, D.P.C.

James Orcutt
Manager CI Services

Newburgh Lab Office

280 Little Britain Road, Building 2 | Newburgh, NY 12550
845.563.9081 Tel | 845.563.9085 Fax

tectonicengineering.com
Equal Opportunity Employer

**GORTON HIGH SCHOOL- NEW ELEVATOR AND INTERIOR IMPROVEMENTS
SPECIAL INSPECTION & MATERIAL TESTING SERVICES
TECTONIC UNIT RATES AND BUDGET ESTIMATE**

INSPECTION SERVICES		RATE	UNIT	QTY	EST TOTAL
STRUCTURAL STEEL FRAMING / COLD FORMED METAL FRAMING					
1	Inspection of Structural Steel Framing - Verify Compliance with Details Shown on Approved Construction Documents & Shop Drawings for: High Strength Bolting, Welding, Galvanized Metal Floor Decking, Steel Frame Joint Details for Bracing/Stiffening... (CWI or ICC Certified SSWS)	\$95.00 \$380.00 \$760.00	Hour Half-day Full-day	3	\$1,140.00 \$0.00
2	Inspection of Cold Formed Metal Framing - Verify Compliance with Details shown on Approved Details & Shop Drawings for: Metal Stud sizes and gauge thickness, location, size & spacing of Power Actuated Fasteners & Screw installation (CWI or ICC Certified Bolting/Welding Inspector)	\$95.00 \$380.00 \$760.00	Hour Half-day Full-day		\$0.00 \$0.00
3	Ultrasonic Testing of Welds (NDT Level II)- minimum 8 hour charge	\$1,000.00	Day		\$0.00
CAST-IN-PLACE CONCRETE					
3	Sr Concrete Technician - Visual Inspection of Formwork, Reinforcing Steel & Embedments, Observe Drilling & Installation of Post-Installed Adhesive Anchors & Field Testing for Slump, A/E, Temperature, Unit Wt. & Sampling the same day (ICC RCSI or ACI SI)	\$60.00 \$240.00 \$480.00	Hour Half Day Full Day	5	\$1,200.00 \$0.00
4	Inspection of Concrete Placement - Field Testing for Slump, Temperature, Air Entrainment & Unit Weight / Casting of Test Cylinders (ACI Grade I Technician)	\$50.00 \$200.00 \$400.00	Hour Half Day Full Day	5	\$1,000.00 \$0.00
5	Test Cylinder Sample Pick-Up (only when a Technician is not scheduled to be on site the following day)	\$100.00	Trip	5	\$500.00
6	Floor Flatness Testing of Concrete Floors (F-Meter)	\$750.00	Day		\$0.00
Laboratory Compressive Strength Testing					
7	Concrete Cylinders (ASTM C39)	\$16.00	Each	25	\$400.00
STRUCTURAL MASONRY CONSTRUCTION (Level I/II)					
8	Inspection of Unit Masonry - Visual Inspection of Masonry Assembly including locations of reinforcement, connectors & anchorages, verification of Mortar & Grout components including Sampling & Field Testing of Mortar and Grout (ICC SMSI)	\$60.00 \$240.00 \$480.00	Hour Half Day Full Day	10 5	\$2,400.00 \$2,400.00
Laboratory Compressive Strength Testing					
9	Mortar Cubes (ASTM C109/C780)	\$16.00	Each	90	\$1,440.00
10	Grout Blocks (ASTM C39)	\$16.00	Each	45	\$720.00
11	Masonry Unit Block (ASTM C140)	\$45.00	Each		\$0.00
12	Masonry Unit Prism (ASTM C1314)	\$195.00	Each		\$0.00
EARTHWORK: SOILS BACKFILL/COMPACTION & SUBGRADE BEARING					
13	Inspection of Soils - Visual Inspection of Site Prep, Proof Rolling of Subgrades and Controlled Fill Placement, Compaction Testing of Soil (ICC Soils Special Inspector / Troxler Certified Technician)*Portal-to-Portal	\$55.00 \$220.00 \$440.00	Hour Half Day Full Day	5	\$0.00 \$2,200.00
14	Geotechnical Inspections - Inspection of Foundation Subgrades/Bearing Strata, Underpinning, Verify Site Preparation & Review Proof-Rolling (Staff Engineer/EIT)	\$95.00 \$380.00 \$760.00	Hour Half Day Full Day	3	\$1,140.00 \$0.00
15	Nuclear Density Guage - Daily equipment charge- unlimited tests	\$85.00	Day	5	\$425.00

Laboratory Sample Testing

16	Sieve Analysis (ASTM D422)	\$75.00	Each	3	\$225.00
17	Proctor Analysis (ASTM D1557/D698)	\$130.00	Each	3	\$390.00
18	Organic Content of Top Soil (ASTM D2974)	\$40.00	Each		\$0.00
19	pH of Top Soil (ASTM D4972/D29)	\$25.00	Each		\$0.00
20	Classification of Soil (ASTM 2488)	\$10.00	Each		\$0.00

SPRAY FIRE RESISTANT MATERIALS / FIRESTOPPING

22	Visual Inspection for the application of Spray-Applied Fireproofing including substrate preparations & primer applications, ambient temperatures, and measurements/testing for thickness, bond strength & density per specification (ASTM E605) / Wet Film Thickness measurements of Thin-Film Intumescent Fire-Resistive materials/ Firestopping Inspections (ICC SFSI)	\$75.00	Hour		
	Laboratory Testing	\$300.00	Half-day	3	\$900.00
		\$600.00	Full-day		\$0.00
23	Density of Spray-Applied Fireproofing (ASTM E605)	\$30.00	Each		\$0.00

PROJECT MANAGEMENT

24	Project Management - Coordination of Field Staff, Review & Finalize Field & Lab Test Reports, Preparation of Field Report Submittals for Distribution, Pre-Installation Conference Meeting Attendance (est 1-2 hours / week while project is active)	\$130.00	Hour	20	\$2,600.00
25	P.E. Oversight - Professional Engineer Sign-Off on Final Report of Special Inspections, Project Oversight (upon request / as needed)	\$165.00	Hour	2	\$330.00

Not Allowed

TRAVEL EXPENSES

26	Round Trip Travel expenses for on-site daily inspections, meeting attendance, etc. See note on project specific terms & conditions.	\$70.00	Trip	30	\$2,730.00
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ESTIMATED TOTAL FEE: ~~\$22,140.00~~

Revise Amount = \$19,410.00

PROJECT SPECIFIC TERMS AND CONDITIONS

- Up to and including 4-hours at the site will be considered a half-day expense, from 4-hours to 8-hours at the site will be considered a full-day expense. Ultrasonic and Radiographic Testing rates are based on 8-hour minimum charge.
- For transporting a Nuclear Density Gauge for Soils and Asphalt testing, the indicated hourly rates are portal-to-portal since our Nuclear Gauge License required the gauges be stored in our secure facility when not in use
- For greater than 8 hours/day, and all time on Saturday, Sunday and Holidays, multiply non-engineer hourly rate by 1.50.
- Surcharge for expediting laboratory tests shall be 25%.
- The unit rates contained herein for laboratory testing of contaminated samples assume standard capabilities and facilities of the lab (working under a hood with protective gloves) and do not include sample disposal costs.
- Testing on contaminated materials may require a project specific Laboratory Health and Safety Plan. The cost associated with any required Health and Safety Plan will be additional.
- All services must be requested by 12:00 noon of the day prior to which services are required.
- A signed contract or purchase order must be received by Tectonic prior to commencement of work.
- Mileage expenses and overnight stay accommodations for inspection services off-site (fabrication shops, batch plants, etc) will be charged at cost from the office at the standard business mileage rate allowed by the Internal Revenue Service in effect at the time travel occurs or per the Travel Expense round trip cost listed above for daily inspections, sample pick-up or meeting attendance at the project site.