

February 11, 2019
Project No. 210165002

Mr. Michael Otavka
Director of Facilities
William S. Hart Union High School District
21380 Centre Pointe Parkway
Santa Clarita, California 91350

Subject: Fee Amendment #1
Geotechnical, Materials Testing and Specialty Inspection Services
Sierra Vista Junior High School Modular Container Classroom Addition Project
Canyon Country, California
Division of State Architect (DSA) Application No. 03-117759

Reference: William S. Hart Union High School District, 2018, Agreement, Sierra Vista Junior High School, dated April 19.

Dear Mr. Otavka:

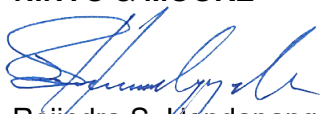
In accordance with the request and authorization of William S. Hart Union High School District, Ninyo & Moore is providing geotechnical, materials testing and special inspection services for the subject project, as coordinated by the Project Inspector, Mr. Glen Lowe, and in accordance with the project Statement of Structural Tests and Specialty Inspections (form DSA-103). Our ongoing services have consisted of field and laboratory inspection and testing of soil, concrete, reinforcing steel, and structural steel.

Due to additional inspection services and re-testing, we will exceed our current approved budget of \$88,208. Based on our discussions with the project inspector, we understand that impending tests and inspections consist of soil, aggregate base, utility trench backfill, and structural steel welding inspection. We have prepared a change order of \$54,926 (fifty four thousand nine hundred twenty-six dollars). This will make the total agreement amount equal to \$143,134. We have attached a detailed breakdown of the additional fees.

To avoid delays to the project, we will continue to provide the requested additional services with the understanding that we will be reimbursed on a time-and-materials basis.

We appreciate the opportunity to be of continued service on this project.

Respectfully Submitted,
NINYO & MOORE



Rajindra S. Handapangoda, PE, GE
Senior Engineer



Alfredo "Tino" Rodriguez
Principal, Construction Services

RAH/AR/mlc

Attachments: Table 1 – Breakdown of Estimated Amendment Fee
Schedule of Fees

Distribution: (1) Addressee (via e-mail)

Table 1 - Breakdown of Estimated Fee**Field Services**

| | | | | | |
|--|-----------|---|-----------------|-----------|------------------|
| Field Technician/Inspector | | | | | |
| Trench and Structure Backfill | 120 hours | @ | \$ 92.00 /hour | \$ | 11,040.00 |
| Subgrade and Aggregate Base Preparation | 100 hours | @ | \$ 92.00 /hour | \$ | 9,200.00 |
| Welding and Bolting Inspector (Field and Shop) | 160 hours | @ | \$ 98.00 /hour | \$ | 15,680.00 |
| Non-Destructive Testing (Welds) | 40 hours | @ | \$ 98.00 /hour | \$ | 3,920.00 |
| Vehicle and Equipment Usage | 420 hours | @ | \$ 10.00 /hour | \$ | 4,200.00 |
| | | | Subtotal | \$ | 44,040.00 |

Laboratory Analyses

| | | | | | |
|-----------------|---------|---|-----------------|-----------|---------------|
| Proctor Density | 2 tests | @ | \$ 220.00 /test | \$ | 440.00 |
| Sand Equivalent | 2 tests | @ | \$ 125.00 /test | \$ | 250.00 |
| | | | Subtotal | \$ | 690.00 |

Project Coordination and Management

| | | | | | |
|---|----------|---|-----------------|-----------|-----------------|
| Senior Project Engineer/Geologist/Environmental Scientist | 40 hours | @ | \$ 163.00 /hour | \$ | 6,520.00 |
| | | | Subtotal | \$ | 6,520.00 |

Report Preparation For The DSA-293, DSA-291

| | | | | | |
|---|----------|---|-----------------|-----------|-----------------|
| Principal Engineer/Geologist/Environmental Scientist | 6 hours | @ | \$ 178.00 /hour | \$ | 1,068.00 |
| Senior Project Engineer/Geologist/Environmental Scientist | 16 hours | @ | \$ 163.00 /hour | \$ | 2,608.00 |
| | | | Subtotal | \$ | 3,676.00 |

| | | | | | |
|----------------------------|--|--|--|-----------|------------------|
| TOTAL ESTIMATED FEE | | | | \$ | 54,926.00 |
|----------------------------|--|--|--|-----------|------------------|

Schedule of Fees

Hourly Charges for Personnel

| | |
|--|--------|
| Principal Engineer/Geologist/Environmental Scientist | \$ 178 |
| Certified Industrial Hygienist | \$ 178 |
| Senior Engineer/Geologist/Environmental Scientist | \$ 168 |
| Senior Project Engineer/Geologist/Environmental Scientist | \$ 163 |
| Certified Asbestos Consultant, Lead Inspector/Assessor, Lead Project Monitor | \$ 163 |
| Project Engineer/Geologist/Environmental Scientist | \$ 156 |
| Senior Staff Engineer/Geologist/Environmental Scientist | \$ 142 |
| Certified Site Surveillance Technician, Lead Sampling Technician | \$ 142 |
| Staff Engineer/Geologist/Environmental Scientist | \$ 126 |
| GIS Analyst | \$ 116 |
| Field Operations Manager | \$ 112 |
| Supervisory Technician | \$ 98 |
| Nondestructive Examination Technician, UT, MT, LP | \$ 98 |
| ACI Concrete Technician | \$ 98 |
| Concrete/Asphalt Batch Plant Inspector | \$ 98 |
| Special Inspector (Concrete, Masonry, Steel, Welding, and Fireproofing) | \$ 98 |
| Senior Field/Laboratory Technician | \$ 92 |
| Field/Laboratory Technician | \$ 92 |
| Technical Illustrator/CAD Operator | \$ 92 |
| Information Specialist | \$ 78 |
| Geotechnical/Environmental/Laboratory Assistant | \$ 76 |
| Data Processing, Technical Editing, or Reproduction | \$ 68 |

Other Charges

| | |
|--|----------------|
| Concrete Coring Equipment (includes one technician) | \$ 180/hr |
| X-Ray Fluorescence | \$ 300/day |
| PID/FID Usage | \$ 140/day |
| Anchor load test equipment (includes technician) | \$ 97/hr |
| Hand Auger Equipment | \$ 65/day |
| Inclinometer Usage | \$ 40/hr |
| Vapor Emission Kits | \$ 40/kit |
| Level D Personal Protective Equipment (per person per day) | \$ 30/p/d |
| Rebar Locator (Pachometer) | \$ 30/hr |
| Nuclear Density Gauge Usage | \$ 12/hr |
| Field Vehicle Usage | \$ 10/hr |
| Direct Project Expenses | Cost plus 15 % |

Laboratory testing, geophysical equipment, and other special equipment provided upon request.

Notes

For field and laboratory technicians and special inspectors, regular hourly rates are charged during normal weekday construction hours. Overtime rates at 1.5 times the regular rates will be charged for work performed outside normal construction hours and all day on Saturdays. Rates at twice the regular rates will be charged for all work in excess of 12 hours in one day or on Sundays and holidays. Lead time for any requested service is 24 hours. Field Technician rates are based on a 4-hour minimum. Special inspection rates are based on a 4-hour minimum for the first 4 hours and an 8-hour minimum for hours exceeding 4 hours. Field personnel are charged portal to portal.

Invoices will be submitted monthly and are due upon receipt. A service charge of 1.0 percent per month may be charged on accounts not paid within 30 days.

The terms and conditions of providing our consulting services include our limitation of liability and indemnities as presented in Ninyo & Moore's Work Authorization and Agreement.

Schedule of Fees for Laboratory Testing

Laboratory Test, Test Designation, and Price Per Test

SOILS

| | |
|--|--------|
| Atterberg Limits, D 4318, CT 204 | \$ 170 |
| California Bearing Ratio (CBR), D 1883 | \$ 550 |
| Chloride and Sulfate Content, CT 417 & CT 422 | \$ 175 |
| Consolidation, D 2435, CT 219 | \$ 300 |
| Consolidation, Hydro-Collapse only, D 2435 | \$ 150 |
| Consolidation – Time Rate, D 2435, CT 219 | \$ 75 |
| Direct Shear – Remolded, D 3080 | \$ 350 |
| Direct Shear – Undisturbed, D 3080 | \$ 300 |
| Durability Index, CT 229 | \$ 175 |
| Expansion Index, D 4829, IBC 18-3 | \$ 190 |
| Expansion Potential (Method A), D 4546 | \$ 170 |
| Geofabric Tensile and Elongation Test, D 4632 | \$ 200 |
| Hydraulic Conductivity, D 5084 | \$ 350 |
| Hydrometer Analysis, D 422, CT 203 | \$ 220 |
| Moisture, Ash, & Organic Matter of Peat/Organic Soils | \$ 120 |
| Moisture Only, D 2216, CT 226 | \$ 35 |
| Moisture and Density, D 2937 | \$ 45 |
| Permeability, CH, D 2434, CT 220 | \$ 300 |
| pH and Resistivity, CT 643 | \$ 175 |
| Proctor Density D1557, D 698, CT 216, AASHTO T-180 | \$ 220 |
| Proctor Density with Rock Correction D 1557 | \$ 340 |
| R-value, D 2844, CT 301 | \$ 325 |
| Sand Equivalent, D 2419, CT 217 | \$ 125 |
| Sieve Analysis, D 422, CT 202 | \$ 145 |
| Sieve Analysis, 200 Wash, D 1140, CT 202 | \$ 100 |
| Specific Gravity, D 854 | \$ 125 |
| Thermal Resistivity (ASTM 5334, IEEE 442) | \$ 925 |
| Triaxial Shear, C.D., D 4767, T 297 | \$ 450 |
| Triaxial Shear, C.U., w/pore pressure, D 4767, T 2297 per pt | \$ 400 |
| Triaxial Shear, C.U., w/o pore pressure, D 4767, T 2297 per pt | \$ 250 |
| Triaxial Shear, U.U., D 2850 | \$ 180 |
| Unconfined Compression, D 2166, T 208 | \$ 130 |

MASONRY

| | |
|---|--------|
| Brick Absorption, 24-hour submersion, 5-hr boiling, 7-day, C 67 | \$ 70 |
| Brick Compression Test, C 67 | \$ 55 |
| Brick Efflorescence, C 67 | \$ 55 |
| Brick Modulus of Rupture, C 67 | \$ 50 |
| Brick Moisture as received, C 67 | \$ 45 |
| Brick Saturation Coefficient, C 67 | \$ 60 |
| Concrete Block Compression Test, 8x8x16, C 140 | \$ 70 |
| Concrete Block Conformance Package, C 90 | \$ 500 |
| Concrete Block Linear Shrinkage, C 426 | \$ 200 |
| Concrete Block Unit Weight and Absorption, C 140 | \$ 70 |
| Cores, Compression or Shear Bond, CA Code | \$ 70 |
| Masonry Grout, 3x3x6 prism compression, C 39 | \$ 45 |
| Masonry Mortar, 2x4 cylinder compression, C 109 | \$ 35 |
| Masonry Prism, half size, compression, C 1019 | \$ 120 |
| Masonry Prism, Full size, compression, C 1019 | \$ 200 |

REINFORCING AND STRUCTURAL STEEL

| | |
|---|--------|
| Chemical Analysis, A 36, A 615 | \$ 135 |
| Fireproofing Density Test, UBC 7-6 | \$ 60 |
| Hardness Test, Rockwell, A 370 | \$ 70 |
| High Strength Bolt, Nut & Washer Conformance, per assembly, A 325 | \$ 150 |
| Mechanically Spliced Reinforcing Tensile Test, ACI | \$ 175 |
| Pre-Stress Strand (7 wire), A 416 | \$ 170 |
| Reinforcing Tensile or Bend up to No. 11, A 615 & A 706 | \$ 60 |
| Structural Steel Tensile Test: Up to 200,000 lbs. (machining extra), A 370 | \$ 80 |
| Welded Reinforcing Tensile Test: Up to No. 11 bars, ACI | \$ 65 |

CONCRETE

| | |
|--|----------|
| Compression Tests, 6x12 Cylinder, C 39 | \$ 30 |
| Concrete Mix Design Review, Job Spec | \$ 180 |
| Concrete Mix Design, per Trial Batch, 6 cylinder, ACI | \$ 850 |
| Concrete Cores, Compression (excludes sampling), C 42 | \$ 60 |
| Drying Shrinkage, C 157 | \$ 400 |
| Flexural Test, C 78 | \$ 75 |
| Flexural Test, C 293 | \$ 75 |
| Flexural Test, CT 523 | \$ 85 |
| Gunit/Shotcrete, Panels, 3 cut cores per panel and test, ACI | \$ 275 |
| Jobsite Testing Laboratory | Quote |
| Lightweight Concrete Fill, Compression, C 495 | \$ 50 |
| Petrographic Analysis, C 856 | \$ 2,000 |
| Restrained Expansion of Shrinkage Compensation | \$ 450 |
| Splitting Tensile Strength, C 496 | \$ 100 |
| 3x6 Grout, (CLSM), C 39 | \$ 45 |
| 2x2x2 Non-Shrink Grout, C 109 | \$ 45 |

ASPHALT CONCRETE

| | |
|---|----------|
| Air Voids, T 269 | \$ 75 |
| Asphalt Mix Design, Caltrans (incl. Aggregate Quality) | \$ 4,500 |
| Asphalt Mix Design Review, Job Spec | \$ 180 |
| Dust Proportioning, CT LP-4 | \$ 75 |
| Extraction, % Asphalt, including Gradation, D 2172, CT 382 | \$ 250 |
| Extraction, % Asphalt without Gradation, D 2172, CT 382 | \$ 150 |
| Film Stripping, CT 302 | \$ 120 |
| Hveem Stability and Unit Weight D 1560, T 246, CT 366 | \$ 225 |
| Marshall Stability, Flow and Unit Weight, T 245 | \$ 240 |
| Maximum Theoretical Unit Weight, D 2041, CT 309 | \$ 150 |
| Moisture Content, CT 370 | \$ 85 |
| Moisture Susceptibility and Tensile Stress Ratio, T 238, CT 371 | \$ 1,000 |
| Slurry Wet Track Abrasion, D 3910 | \$ 150 |
| Superpave, Asphalt Mix Verification (incl. Aggregate Quality) | \$ 4,900 |
| Superpave, Gyration Unit Wt., T 312 | \$ 100 |
| Superpave, Hamburg Wheel, 20,000 passes, T 324 | \$ 1,000 |
| Unit Weight sample or core, D 2726, CT 308 | \$ 100 |
| Voids in Mineral Aggregate, (VMA) CT LP-2 | \$ 75 |
| Voids filled with Asphalt, (VFA) CT LP-3 | \$ 75 |
| Wax Density, D 1188 | \$ 100 |

AGGREGATES

| | |
|--|----------|
| Clay Lumps and Friable Particles, C 142 | \$ 180 |
| Cleanliness Value, CT 227 | \$ 180 |
| Crushed Particles, CT 205 | \$ 175 |
| Durability, Coarse or Fine, CT 229 | \$ 205 |
| Fine Aggregate Angularity, ASTM C 1252, T 304, CT 234 | \$ 180 |
| Flat and Elongated Particle, D 4791 | \$ 220 |
| Lightweight Particles, C 123 | \$ 180 |
| Los Angeles Abrasion, C 131 or C 535 | \$ 200 |
| Material Finer than No. 200 Sieve by Washing, C 117 | \$ 90 |
| Organic Impurities, C 40 | \$ 90 |
| Potential Alkali Reactivity, Mortar Bar Method, Coarse, C 1260 | \$ 1,250 |
| Potential Alkali Reactivity, Mortar Bar Method, Fine, C 1260 | \$ 950 |
| Potential Reactivity of Aggregate (Chemical Method), C 289 | \$ 475 |
| Sand Equivalent, T 176, CT 217 | \$ 125 |
| Sieve Analysis, Coarse Aggregate, T 27, C 136 | \$ 120 |
| Sieve Analysis, Fine Aggregate (including wash), T 27, C 136 | \$ 145 |
| Sodium Sulfate Soundness, C 88 | \$ 450 |
| Specific Gravity and Absorption, Coarse, C 127, CT 206 | \$ 115 |
| Specific Gravity and Absorption, Fine, C 128, CT 207 | \$ 175 |

ROOFING

| | |
|--|--------|
| Roofing Tile Absorption, (set of 5), C 67 | \$ 250 |
| Roofing Tile Strength Test, (set of 5), C 67 | \$ 250 |

Special preparation of standard test specimens will be charged at the technician's hourly rate.
Ninyo & Moore is accredited to perform the AASHTO equivalent of many ASTM test procedures.