



## CHANGE ORDER NO. 1

**DATE:** June 30, 2020 **FILE NO.:** 302415-003

**PROJECT NAME:** Brownell Middle School Rebuild and Modernization - SI

**PROJECT ADDRESS:** 7800 Carmel Street, Gilroy, California

**CLIENT NAME:** Gilroy Unified School District, Attn: Mr. Paul Nadeau

**CLIENT ADDRESS:** 7810 Arroyo Circle, Gilroy, CA 95020

**ORIGINAL AGREEMENT:** Proposal for Construction Inspection and Testing Services, Brownell Middle School Increments 2 and 3, Doc. No. 1906-060.PRP, dated July 12, 2019

**SCOPE OF  
ADDITIONAL SERVICES:** Special Inspection and Testing Services for Increment 3 and added DSA requirement for solar panel installation inspection as outlined in the cost estimate dated June 30, 2020

**ADDITIONAL COMPENSATION  
REQUIRED:** Time and Materials per attached Cost Estimate.  
Estimated Fee of \$139,352.00

**NOTE:** The terms and conditions of the original agreement apply to all additional services.

Earth Systems Pacific

Brett Faust  
Vice President

June 30, 2020

Date

PLEASE RETURN A SIGNED COPY TO  
EARTH SYSTEMS PACIFIC

### AGREED TO AND ACCEPTED:

Gilroy Unified School District  
Client (Party responsible for payment)

by Authorized Representative (please print)

Signature and Title

Date

Telephone Number

Email Address



## Cost Estimate

Project: Brownell Middle School, Increment 3 and Solar Canopies

Date: 6/30/2020

File No.: 302415-003

Client: Gilroy Unified School District

\$120.00 minimum 2 hour billing increments

\$115.00 minimum 2 hour billing increments

\$100.00

\$95.00

\$0.80

## Special Inspection and Testing Budget

	Number of Trips	Hours or Units	Total	Rate	unit	Fee
<b>Inspections</b>						
Rebar and Structural steel ID and Tagging (local bay area)	19	4	76	\$100.00	hr.	\$7,600.00
Batch Plant Inspection (local bay area)	15	2	30	\$100.00	hr.	\$3,000.00
ACI Concrete Technician Sampling	15	8	120	\$115.00	hr.	\$13,800.00
Inspect Installation of Post-Installed Anchors	4	4	16	\$115.00	hr.	\$1,840.00
Test Post-Installed Anchors	4	4	16	\$115.00	hr.	\$1,840.00
Torque/Tension Test Equipment			16	\$35.00	hr.	\$560.00
Anchor Bolts and Anchor Rods - Material ID	4	4	16	\$100.00	hr.	\$1,600.00
Field Welding Inspection	30	4	120	\$120.00	hr.	\$14,400.00
Shop Welding Inspection - Canopy	45	8	360	\$100.00	hr.	\$36,000.00
High Strength Grout Inspection and Sampling	3	8	24	\$115.00	hr.	\$2,760.00
Glulam Inspection					lump sur	\$3,840.00
Solar Panel Installation Inspection and Testing	25	8	200	\$115.00	hr.	\$23,000.00
Sample Pickups	18	2	36	\$95.00	hr.	\$3,420.00
Mileage	182	45	8190	\$0.80	mi.	\$6,552.00
Subtotal						<b>\$120,212.00</b>

<b>Laboratory Testing</b>	Sets	Samples	Rate	Unit	Fee
Rebar Testing	25	25	\$135.00	ea.	\$3,375.00
Test Bolts, Nuts and Washers	3	3	\$400.00	ea.	\$1,200.00
High Strength Grout Testing	3	9	\$65.00	ea.	\$585.00
Concrete Cylinder Testing	15	75	\$40.00	ea.	\$3,000.00
TOTAL LABOR HOURS					Subtotal <b>\$8,160.00</b>

<b>Reports and Project Management ("Special Inspection" work)</b>					
Project Management and Supervision (in hours) for special inspection work		30	\$180.00	hr.	\$5,400.00
Progress Inspection Reports and upload to the BOX		30	\$70.00	ea.	\$2,100.00
Engineering Review		6	\$180.00	hr.	\$1,080.00
Interim and Final Report of Special Inspections and Testing		8	\$300.00	ea.	\$2,400.00
Subtotal					<b>\$10,980.00</b>

Estimate Total: **\$139,352.00**



## **FEE SCHEDULE – DSA/OSHPD**

(Effective January 1, 2020)

This schedule presents rates for professional and technical services in the fields of geotechnical engineering, engineering geology, environmental consulting, construction observation and testing, and special inspection. Listed are charges for services most frequently performed by Earth Systems. Additional services not listed are available and can be discussed upon request; fixed-fee quotes for some services can also be provided upon request. To discuss a scope of work and fees for a specific project, please contact our office.

<b><u>PERSONNEL</u></b>	<b><u>Hourly Rate</u></b>
Principal Professional.....	\$215.00
Associate Professional .....	\$195.00
Senior Professional .....	\$180.00
Project Professional.....	\$155.00
Staff Professional .....	\$140.00
Special Inspector, Prevailing Wage* .....	\$130.00
Technician, Prevailing Wage* .....	\$125.00
Special Services/Caltrans Technician, Prevailing Wage* .....	\$125.00
Special Services Technician.....	\$115.00
Special Inspector.....	\$100.00
Technical Assistant.....	\$90.00
Technician .....	\$95.00
Clerical/Administrative .....	\$75.00

\* Technician/Inspector Classifications as defined by the State of California Department of Industrial Relations.

## **BASIS OF CHARGES**

1. The prevailing wage (PW) rates presented herein are based on current rates established by the Department of Industrial Relations (DIR). If, during the course of the project, prevailing wage rates are increased by DIR, rates are subject to adjustment.
2. Field services for regular work days are subject to a 4-hour minimum charge, and billed in 4-hour increments.
3. Work performed on Saturdays, night work, and for premium hours (before 7 a.m., after 5 p.m. or more than 8 hours in one day) for personnel are at time and one-half; Sundays and holidays are at double time. Also, please note requirements concerning overtime, shift work, travel time, holidays, and other factors can vary for different classifications of work under prevailing wage regulations.
4. A 2-hour cancellation charge applies if scheduled inspection or testing is cancelled after 4 p.m. the day prior to the scheduled work.
5. Mileage is invoiced at a rate of \$0.80/mile (portal-to-portal).
6. Nuclear density gauge charge: \$15.00/hour.
7. Weekly special inspection report charge: \$120.00.
8. Subcontracted services, materials, rental equipment, out of town travel, and expenses are charged at cost plus 20 percent. Fixed per diem rates for specific projects can be provided upon request.
9. Report copies: \$30.00 each (minimum). Posting of electronic documents to project websites will be charged at clerical/administrative services rate.
10. Projects where State regulations require electronic submittal of Certified Payroll to DIR for prevailing wage will be assessed a fee of \$70.00/week. Additional time required to address specific requests related to DIR/Labor Compliance will be charged at the clerical/administrative services rates.
11. Invoices are payable upon presentation. Invoices thirty days past due are subject to a service charge of one and one-half percent per month. Payments using a credit card will be assigned a 3% surcharge.
12. Rates are effective through June 30, 2020.



## FEE SCHEDULE – DSA/OSHPD – MATERIALS TESTING

(Effective January 1, 2020)

### **BASIS OF CHARGES**

Rates for field work such as materials sampling, construction inspection, and field evaluation will be in accordance with the Personnel Rates listed in the basic Fee Schedule. The below listed rates apply to standard ASTM test methods. An additional hourly charge (\$80.00/hr.) will be applied for cutting, capping, or other preparation of non-standard samples and, where noted, for steel samples.

### **SOILS**

All prices are based on California and Modified California sample sizes (2" – 2.5" diameter) unless noted otherwise. Preparation of 3" diameter samples add \$20.00. Testing of contaminated soil will be per quote. Samples will be returned to sender for proper disposal.

Atterberg Limits: Liquid Limit or Plastic Limit.....	\$115.00
Atterberg Limits: Plasticity Index .....	\$220.00
California Bearing Ratio, 3 points; incl. ref maximum density .....	\$575.00
California Bearing Ratio, 9 points; incl. ref maximum density .....	\$945.00
Consolidation, one dimensional .....	\$205.00
Consolidation, timed, per point .....	\$100.00
Basic Corrosivity w/out Rpt (pH, Sulfate, Chl., Resistivity) .....	Per Quote
Direct Shear, 3 points minimum .....	\$300.00
Expansion Index Test .....	\$200.00
Maximum Density and Optimum Moisture: 4" Mold .....	\$260.00
Maximum Density and Optimum Moisture: 6" Mold .....	\$305.00
Maximum Density and Optimum Moisture: California Impact .....	\$295.00
Moisture and Unit Weight Determination, from ring samples .....	\$30.00
Moisture Only .....	\$25.00
Permeability Tests, constant head or falling head .....	Per Quote
R-Value .....	\$300.00
R-Value, CA State Hwy/set of 3, Cement, Lime, Other addts .....	\$370.00
Hydro Collapse Potential .....	\$175.00
Hydrometer Analysis, assumed specific gravity, with 200 wash .....	\$235.00
Sieve/Hydrometer Anlys, assumed specific grvty, w/200 wash .....	\$250.00
Sieve Analysis, Aggregate Base/Subbase .....	\$145.00
Sieve Analysis 200 wash only .....	\$90.00
Sieve Analysis with wash .....	\$125.00
Sieve Analysis, Oversize Material .....	\$210.00
Specific Gravity .....	\$145.00
Swell Test, undisturbed .....	\$200.00
Swell Test, remolded .....	\$225.00
Unconfined Compressive Strength, untreated.....	\$105.00
Unconfined Compressive Strength, lime or cement treated mtrl.....	\$480.00

### **THERMAL RESISTIVITY TESTS**

Concrete, 1 pt w/moisture content (req spcl collection proc) .....	Per Quote
Field Testing using Thermal Resistivity Meter .....	Per Quote
Soil, per moisture point, per sample .....	Per Quote
Soil, 3 moisture points with dry-out curve, per sample .....	Per Quote

### **CONCRETE AGGREGATE**

Abrasion, L.A. Rattler, 100 and 500 revolutions.....	\$270.00
Absorption, Coarse Aggregate .....	\$80.00
Absorption, Fine Aggregate.....	\$120.00
Clay Lumps and Friable Particles in Aggregate .....	\$120.00
Cleanness Value of Coarse Aggregate .....	\$140.00
Crushed Particles, each size .....	\$120.00



## FEE SCHEDULE – DSA/OSHPD – MATERIALS TESTING

(Effective January 1, 2020)

### **CONCRETE AGGREGATE (Cont.)**

Durability Index, Coarse or Fine Aggregate .....	\$150.00
Flat and Elongated Particles in Aggregate .....	\$120.00
Organic Impurities in Fine Aggregate .....	\$90.00
Potential Reactivity of Aggr by Chemical Method, ea size .....	Per Quote
Sand Equivalent .....	\$130.00
Sieve Analysis, washed .....	\$160.00
Soundness, Sodium Sulfate, 5 cycles .....	\$350.00
Specific Gravity, Coarse Aggregate .....	\$120.00
Specific Gravity, Fine Aggregate .....	\$150.00
Uncompacted Void Cntnt of Fine Agg Angularity, w/fine Agg SG .....	\$240.00
Unit Weight of Aggregate .....	\$90.00

### **CONCRETE CYLINDERS, BEAMS AND CORES**

Compression Test of Cast Cylinders .....	\$40.00*
Compression Test of Cored Samples, cored at laboratory .....	\$120.00
Compression Test of cores delivered by others .....	\$75.00
Compression Test of Lightweight Concrete .....	\$50.00*
Density of Concrete Cylinders .....	\$80.00
Density of Hardened Concrete .....	\$90.00
Flexural Strength, Simple Beam with Third Point Loading .....	\$110.00
Grading of Shotcrete Cores .....	\$65.00
Sample Storage, monthly per sample .....	\$30.00
Shrinkage, set of 3 .....	\$420.00
Unit Weight of Lightweight Concrete .....	\$65.00
Enviro. Recycling Fee, per cylinder, core or beam .....	\$1.50
Enviro. Recycling Fee, per flex beam .....	\$3.00
Enviro. Recycle Fee/Form Stripping, per shotcrete panel/beam .....	\$50.00

### **MASONRY**

Absorption of Block, set of 3 .....	\$130.00
Absorption/Specific Gravity/Moisture Content of Block, set of 3 .....	\$315.00
Compression Test, 2" x 4" Mortar Cylinders .....	\$38.00*
Compression Test, 3" x 3" x 6" Grout Samples .....	\$65.00*
Compression Test on Block, set of 3 .....	\$160.00
Compression Test on Grouted Prisms, includes cutting .....	\$160.00*
Compression Test on Masonry Cores .....	\$65.00
Coring of Grouted Masonry by Subcontractor .....	cost + 20%
Masonry Shrinkage, set of 3 .....	\$255.00
Moisture Content of Block as received, set of 3 .....	\$85.00
Shear Test on Masonry Cores, 2 faces .....	\$105.00
Specific Gravity and Unit Weight of Block, set of 3 .....	\$100.00
Enviro. Recycling Fee, per masonry prism .....	\$3.00
Enviro. Recycling Fee, per mortar or grout sample .....	\$1.50

\* Includes formal report of test results following 28-Day tests.

### **FIREPROOFING**

Fireproof Bond Test .....	Per Quote
Fireproofing Density Test (1) .....	\$265.00

### **ASPHALT CONCRETE**

Bulk Specific Gravity of Compacted Specimens and Core Samples .....	\$75.00
Compaction of Lab Samples, CA Kneading Compactor, set of 3 .....	\$245.00
Compaction of Lab Samples, CA Kneading Compactor, set of 5 .....	\$400.00



## FEE SCHEDULE – DSA/OSHPD – MATERIALS TESTING

(Effective January 1, 2020)

### ASPHALT CONCRETE (Cont.)

Compaction of Lab Spls, Mrshl Mthd set of 3 –(50 blows/side).....	\$245.00
Compaction of Lab Spls, Mrshl Mthd set of 3 –(75 blows/side).....	\$260.00
Extraction of Oil from A.C. Mixtures.....	\$280.00
Extraction of Oil from Rubberized Mixtures.....	\$370.00
Gyratory Compactor, per set of field mixed asphalt .....	\$480.00
Hamburg Wheel Tracker Test, per set of field mixed asphalt .....	\$780.00
Ignition Oven Binder Cntnt, after initial corr value is det.....	\$280.00
Ignition Oven Binder Cntnt Corr Value /mix design, ave of 3.....	\$805.00
Ignition Oven Gradation Correction Value, per mix design.....	Per Quote
Moisture Content .....	\$55.00
Sieve Analysis of Extracted Aggregate.....	\$280.00
Sieve Analysis of Ignition Oven Residue .....	\$170.00
Specific Gravity, Theoretical Maximum, Rice Method .....	\$130.00
Stability and Flow, Marshall Apparatus, set of 3 .....	\$230.00
Stabilometer, Hveem S-Value, set of 3 .....	\$330.00
Enviro. Recycling Fee, per sample .....	\$1.50
Enviro. Recycling Fee for Extracted Oils .....	\$30.00

### REINFORCING AND STRUCTURAL STEEL

Bend Test of Welded Specimen, sample preparation not incl .....	\$85.00
Pipe Flattening Test, sample preparation not included .....	\$70.00
Reinforcing Steel Coupler Tensile and Slip Tests.....	\$255.00
Structural Steel Bend Test, sample preparation not included .....	\$85.00
Structural Steel Machining/Sample Preparation.....	cost + 20%
Structural Steel Tensile Test, sample prep not included .....	\$85.00
Tensile and Bend Tests of Reinforcing Bar, #2 through #9.....	\$135.00
Tensile and Bend Tests of Reinforcing Bar, #10 through #18.....	Per Quote
Enviro. Recycling Fee, per sample .....	\$1.50

### BOLT TESTS

Bolt Tests, chemical or mechanical .....	cost + 20%
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### WELDER QUALIFICATION

AWS D1.1: 3/8" Plate, per position .....	Per Quote
AWS D1.1: 1" Plate, per position.....	Per Quote
AWS D1.3: Sheet Steel.....	Per Quote
AWS D1.4: Reinforcing Bar .....	Per Quote
ASME/API Pipe Sections .....	Per Quote

### EQUIPMENT/CHARGES (Does Not Include Personnel)

110-volt Portable Electric Generator .....	\$105.00/day
Anchor Pull Test Equipment .....	\$40.00/hr.
Bailer (disposable) w/dedicated rope .....	\$25.00/ea.
Concrete and Asphalt Concrete Coring Equipment.....	cost + 20%
Concrete Slab Moisture Transition Kit.....	\$35.00/ea.
Conductivity Meter.....	cost + 20%
Cut-Off Saw .....	\$80.00/day
Double Ring Infiltrimeter (per set) .....	\$155.00/day
Drum Dolly.....	\$25.00/day
Drums .....	\$75.00/ea.
Dynamometer, In-line Scale .....	Per Quote
Hammer Drill .....	\$55.00/day
Hand Auger/Sampler Equipment .....	\$50.00/day
Lock n, Load VOC Sample Pres. Sys. ....	\$20.00/ea.



## FEE SCHEDULE – DSA/OSHPD – MATERIALS TESTING

(Effective January 1, 2020)

### EQUIPMENT/CHARGES (Cont.) (Does Not Include Personnel)

Magnetic Particle Equipment .....	Per Quote
Manometer .....	\$100.00/day
Mini-Troll Groundwater Level Transducer .....	\$100.00/day
Mobile Laboratory .....	Per Quote
Nuclear Density Equipment .....	\$15.00/hr.
Paint Thickness Meter .....	Per Quote
Vehicle with Percolation Tank System .....	\$250.00/day
Personal Protective Equipment Level C .....	Per Quote
Pile Driving Equipment (for pile load testing) .....	Per Quote
Pile Load Testing Equipment .....	Per Quote
Pulse Velocity Meter .....	Per Quote
Rebound Hammer (Schmidt Hammer) .....	\$50.00/day
Reinforcing Steel Locating Equipment (DR-Meter) .....	\$100.00/day
Relative Humidity Meter .....	\$100.00/day
Off Road Vehicle .....	Per Quote
Safety and Specialty Equipment .....	Per Quote
Sampling Consumables .....	Per Quote
Skidmore Bolting Calibration Equipment .....	\$125.00/day
Slope Inclinator Equipment, per hole .....	Per Quote
Soil Sampling Containers (metal) .....	\$15.00/ea.
Soil Sampling Containers (glass) .....	\$5.00/ea.
Tape Extensometer .....	Per Quote
Tension Equipment .....	\$200.00/day
Torque/Tension Equipment .....	\$200.00/day
Water Level Indicator .....	\$45.00/day
Windsor Probe, set of 3 .....	Per Quote
Per Diem .....	Per Quote
DIR Compliance/eCPR, per week .....	\$70.00
DSA Box Posting, ea .....	\$70.00
DSA Lab Compliance, per week .....	\$50.00
Vehicle Mileage Charge .....	\$0.80



## **EXPERT WITNESS SERVICES**

(Effective January 1, 2020)

The following rates apply to deposition testimony, arbitration testimony, hearings and court appearances.

## **HOURLY CHARGES FOR PERSONNEL**

Principal Professional .....	\$400.00
Associate Professional .....	\$300.00
Senior Professional .....	\$250.00
Clerical/Admin Services .....	\$90.00

## **SPECIAL SERVICES**

Deposition .....	\$400.00/hr. <sup>2</sup>
Arbitration .....	\$400.00/hr.
Court Appearance/Hearings .....	\$1,500.00/half day <sup>3</sup>
Standby to Appear .....	\$750.00/day <sup>4</sup>

## **BASIS OF CHARGES**

1. Hourly rates are charged during investigation, analysis, consultation, and preparation services.
2. Estimated deposition fee payable in advance by party requesting deposition. The difference between advance payment and final fee to be billed or refunded in accordance with the fee and billing information in this schedule. Fee for reviewing deposition transcript will be billed at hourly rates to the party requesting the review.
3. Minimum half day charge will apply to court appearances and hearings. Time extending through the noon hour will be subject to the full day charge of \$3,000.00.
4. Days, or portions thereof, reserved for appearances at hearings, court, or arbitrations, during which we are not required to be away from our offices will be subject to a standby charge of \$750.00. Standby at other locations will be charged at the general hourly rates.