Leighton Consulting, Inc.
A LEIGHTON GROUP COMPANY

October 25, 2018

Proposal No. TE18-204

Perris Union High School District
155 E 4th Street
Perris, California 92570

Attention: Mr. Hector Gonzalez, Director of Facilities

Subject: Proposal for Geotechnical, Materials Testing and Special Inspection Proposed Paloma High School Modular Classroom, Restroom and Concession Buildings, 31375 Bradley Road, Menifee, California
DSA 04-117482

In accordance with your request, we are pleased to present this proposal to provide geotechnical testing, materials testing and special inspection services during construction. Please note that a construction schedule was not available for us during preparation of this proposal. As such, we recommend that the estimated budget herein be updated once a construction schedule becomes available.

PROJECT DESCRIPTION

Our understanding of this project is primarily based on our review of project plans and specifications prepared by PJHM Architects (2018), review of provided DSA-103 form, and our soils report dated March 27, 2018. Based on our review, we understand that this project will include the construction of ten (10) relocatable classrooms located on-campus, restroom and concession buildings located in the stadium and associated drainage facilities and hardscape improvements.

PROPOSED SCOPE OF WORK

Our proposed scope of work will consist of geotechnical and materials testing, and construction materials "special inspection" services in general accordance with Chapter 17A of the 2016 California Building Code (CBC), Title 24, Part I, and other recognized authorities typically specified for a similar project. Our scope of services during construction is conceptually divided into the following tasks:

- **Geotechnical Observation/Testing and DSA Reports**: We will perform part-time and/or as-needed geotechnical observation and testing during grading, and subgrade preparation associated with proposed flatwork/sidewalk. We also will test trench backfill associated with electrical trenches and storm drain construction.

- **Cast-In Place Reinforced Concrete:** We will provide a concrete technician on-site to sample fresh concrete and perform slump tests (ASTM C 143) and air content tests (ASTM C 173 or C 231) when requested by your designated field representative (or PI). A set of 5 test specimens (cylinders) per 50 cubic yards (or portion thereof in a single day) placed per mix-design will be molded in accordance with ASTM C 31 for compressive strength testing. We have assumed that reinforcing steel and concrete placement will be inspected by the PI and all concrete will placed in two pours.
- **Reinforcing Steel:** We will pick up representative reinforcing steel samples and "Tag" source materials for site delivery identification. Sampled materials will be tested as required.
- **Structural Steel Welding:** We will provide, an AWS Certified Welding Inspectors (CWI) at a local Southern California fabrication shop. The inspector will check the material, equipment, details of construction and procedures welds and the ability of the welder. The inspector may use gamma ray, sonic or any other aids for visual inspection that he may deem necessary to determine the adequacy of the welding.
- **Masonry Inspection:** We will provide inspection of CMU walls construction including sampling and testing of materials.
- **QA/QC Project Management and DSA Reports**: This scope of work will consist of reviewing inspection reports and laboratory test results for construction materials inspected and tested by our firm for use on this project. Daily inspection reports from our inspectors in the field will be reviewed and prepared for distribution. Laboratory tests results will also be reviewed, checked for correctness, and prepared for distribution. Inspection concerns encountered in the field and noted in the daily reports, and any material tested and found to be outside project specifications, will be brought to the attention of the inspector of record. Supervision QA/QC and project management will be provided by our Materials Inspection Manager, as needed. DSA closeout documents (interim and final DSA 291s) will be provided, as needed.

SITE SAFETY

Site safety is the responsibility of the contractor. Therefore, we will notify the contractor's site representative, and your Project Inspector if/as directed by you for this project, whenever we are on site. You will also need to assign someone to sign our Daily Field Reports (DFRs) whenever our technicians and/or inspectors are onsite. This should be established at or before our pre-construction meeting.

SCHEDULE

We are prepared to begin our work immediately upon receipt of your signed authorization to proceed. Scheduling of our technicians and inspectors should be done in accordance with the requirements of the Project Manual; however, we would like two working days advance notice when scheduling our field personnel at the commencement of construction; work thereafter may be scheduled with one working day (minimum 24-hour) notice. Calls to our dispatch after 3:00 pm (prior work day) or on weekends and holidays are not addressed until the first following working day, without prior arrangement. We anticipate our personnel will be on site periodically for both fulltime and/or part-time observation and testing, as requested by your field representative. We will work with your field representative to reduce standby time or unnecessary trips to the site. We anticipate that a construction management (CM) representative or PI will be onsite to (1) schedule our personnel, (2) supervise various contractors' activities and (3) respond to deficiencies in materials if necessary.

FEES AND TERMS

Time and Expense Fee Schedule

The actual amount of time, and our associated fees, will be dependent on weather, exposed subsurface conditions, requests of the District and/or PI and the contractor's schedule, sequencing, pace and efficiency. We understand that the District will approve all changes prior to cost adjustments. Our services will be billed in accordance with *our attached Professional Fee Schedule.* This is PREVAILING WAGE, field services hourly rates may change commensurate with prevailing wage rate changes mandated by the California Department of Industrial Relations (DIR).

Budget Estimate and Assumptions

Our budget is based on normal daylight workday shifts of 8 hours per day, 40 hours per week, Monday through Friday except holidays. Overtime is not included in our budget. Overtime work (over 8 hours per day, weekends or holidays). Our estimate does not include costs for response to project RFI's, geotechnical consultation; additional field hours requested beyond those stated herein, third-party review or respond to comments of any regulatory agency. Also excluded from our budget estimate are:

- Site concrete inspection and testing (i.e. 2,500 psi or less),
- Costs for shop inspection (outside of southern California), and/or
- Costs of tests or inspections due to the following:
    1. Retesting because of failure of initial samples,

2. Additional costs due to overtime work or extra work because of improper scheduling of technicians and/or inspectors, or of delivery of structural materials by the contractor without DSA required plant inspection documentation and/or mill certifications,
3. Failure to notify our laboratory or dispatch (866-LEIGHTON) in a timely manner as required by the project manual,
4. Retests resulting from changes in sources, lots or suppliers of materials after original tests are completed,
5. Changes in methods or materials of construction that require testing, inspection and/or other related services in excess of that required by the original design, and/or
6. Concrete mix design reviews and letters in excess of one mix design.

A detailed breakdown of the estimated fee is included in Table 1 attached. We assumed that shop welding inspection can be completed in one to 3 days. We assume that a Purchase Order will be issued to us before we invoice, which will reference the terms and conditions of our mutually agreed to agreement, and document your authorization for this scope, schedule and fee. Any changes in these terms and conditions may require a change in the scope of services or fees or both. We recommend that our budget estimate provided below is updated once a construction schedule becomes available.

C L O S U R E

We appreciate the opportunity to be of continued service on this project. If you have any questions or information that would update our scope of work, please call us at *1-866-LEIGHTON* or the contact information provided below.

Respectfully submitted,

LEIGHTON CONSULTING, INC.

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Enclosures: Table 1 – Breakdown of Estimated Fee
Amended 2018 Fee Schedule

Distribution: (1) Addressee via electronic mail

Leighton

Leighton Consulting, Inc.

Table 1 - Estimated Fees

Paloma High School Modular Classrooms, Stadium Restroom and Concession Buildings, DSA 04-117482

Soils Materials/Testing and Special Inspection - Field

Proposal # TE18-204

TASK DESCRIPTION		RATE	UNITS	COST
Pre-Construction Meeting/Project Review				
Associate		$198.00 / hour	2	$396.00
Field Soils/Material Tester (Prevailing Wage)		$117.00 / hour	3	$351.00
Project Administrator/Word Processor		$72.00 / hour	2	$144.00
Staff Engineer		$135.00 / hour	2	$270.00
			SUBTOTAL	**$1,161.00**
Field Observation and Testing (PW)				
Field Soils/Material Tester (Prevailing V	Soils/Compaction Testing - Grading	$117.00 / hour	60	$7,020.00
Field Soils/Material Tester (Prevailing V	Soils/Compaction Testing - Pavement and utilities	$117.00 / hour	48	$5,616.00
Field Soils/Material Tester (Prevailing V	Field sampling of concrete (assume all 10 relos in three pc	$117.00 / hour	80	$9,360.00
Building/Construction Inspector (Prevail	Welding and Masonry Inspection - Field	$117.00 / hour	140	$16,380.00
Non Destructive Testing (Prevailing Wa	Field Welding	$135.00 / hour	8	$1,080.00
Field Supervisor		$131.00 / hour	8	$1,048.00
Vehicle Usage		$13.00 / hour	286	$3,718.00
	Non-PW Tasks			
Senior Special Inspector	Rebar Tag and Release	$99.00 / hour	24	$2,376.00
Senior Special Inspector	Batch Plant	$99.00 / hour	60	$5,940.00
Senior Special Inspector	Shop Inspection - southern Cal	$99.00 / hour	120	$11,880.00
Non Destructive Testing (NDT)	Welding	$135.00 / hour	8	$1,080.00
			SUBTOTAL	**$65,498.00**
Laboratory Testing				
Particle size - Sieve only 1½ inch to #200, (ASTM D6913/CTM 202)		$135.00 / each	3	$405.00
CMU compression to size 8” x 8” x 16” (3 required, ASTM C140)		$45.00 / each	6	$270.00
CMU grouted prisms (compression test ≤8” x 8” x 16”, ASTM E 447 C 1314)		$180.00 / each	3	$540.00
Sand Equivalent (SE, ASTM D2419/CTM 217)		$105.00 / each	3	$315.00
Modified Proctor compaction 4 inch mold (Methods A & B ASTM D1557)		$220.00 / each	3	$660.00
Modified Proctor compaction 6 inch mold (Method C ASTM D1557)		$245.00 / each	1	$245.00
R-Value (AASHTO T190/ASTM D2844/CTM 301) untreated soils/aggregates		$310.00 / each	1	$310.00
Expansion Index (EI, ASTM D4829)		$130.00 / each	1	$130.00
Pick-up & delivery – (weekdays, per trip, <50 miles from Leighton office)		$90.00 / each	15	$1,350.00
Concrete cylinders compression (ASTM C39 4” x 8”)		$22.00 / each	100	$2,200.00
Mortar cylinders (2” by 4”, ASTM C780)		$25.00 / each	12	$300.00
Grout prisms (3” by 6”, ASTM C1019)		$25.00 / each	12	$300.00
Masonry cores compression, ≤6” diameter (testing only, ASTM C42)		$40.00 / each	6	$240.00
Masonry core-shear, Title 24 (test only)		$70.00 / each	12	$840.00
Rebar tensile test up to ≤ No. 10 bars (ASTM A370)		$45.00 / each	9	$405.00
Rebar bend test, up to ≤ No. 10 bars (ASTM A370)		$45.00 / each	9	$405.00
			SUBTOTAL	**$8,915.00**
Reporting/Project Management				
Associate	PM / QC Review	$198.00 / hour	12	$2,376.00
Senior Staff Engineer	DSA Reports	$144.00 / hour	16	$2,304.00
Project Administrator/Word Processor	Dispatch, report distribution, review, wtc.	$72.00 / hour	20	$1,440.00
Operations Manager	Mix Design Reviews	$162.00 / hour	6	$972.00
			SUBTOTAL	**$7,092.00**
			TOTAL ESTIMATED COST	**$82,666.00**

2018 PROFESSIONAL FEE SCHEDULE

CLASSIFICATION	$/HR
Technician I	77
Technician II / Special Inspector	89
Senior Technician / Senior Special Inspector	99
Prevailing Wage (field soils / materials tester) *	117
Prevailing Wage (Special Inspector) *	117
Prevailing Wage (Source Inspector, NDT and soil remediation O&M)*	135
System Operation & Maintenance (O&M) Specialist	126
Non Destructive Testing (NDT)	135
Deputy Inspector	99
Field / Laboratory Supervisor	131
Source Inspector	122
City of Los Angeles Deputy Building (including Grading) Inspector	140

* See Prevailing Wages in Terms and Conditions

CLASSIFICATION	$/HR
Project Administrator/Word Processor/Dispatcher	72
Information Specialist	99
CAD Operator	113
GIS Specialist	126
GIS Analyst	149
Staff Engineer / Geologist / Scientist	135
Senior Staff Engineer / Geologist / Scientist / ASMR	144
Operations / Laboratory Manager	162
Project Engineer / Geologist / Scientist	162
Senior Project Engineer / Geologist / Scientist / SMR	180
Associate	198
Principal	216
Senior Principal	261

GEOTECHNICAL LABORATORY TESTING

METHOD	$/TEST
CLASSIFICATION & INDEX PROPERTIES	
Photograph of sample	10
Moisture content (ASTM D2216)	20
Moisture & density (ASTM D2937) ring samples	30
Moisture & density (ASTM D2937) Shelby tube or cutting	40
Atterberg limits (ASTM D4318) 3 points:	150
-Single point, non-plastic	85
-Atterberg limits (organic ASTM D2487 / D4318)	180
-Visual classification as non-plastic (ASTM D2488)	10
Particle size:	
-Sieve only 1½ inch to #200, (AASHTO T27/ASTM C136/ASTM D6913/CTM 202)	135
-Large sieve 6 inch to #200 (AASHTO T27/ASTM C136/ASTM D6913/CTM 202)	175
- Hydrometer only (ASTM D422)	110
- Sieve + hydrometer (≤3 inch sieve, ASTM D422)	185
- Percent passing #200 sieve, wash only (ASTM D1140)	70
Specific gravity and absorption of fine aggregate (AASHTO T84/ASTM C128/ASTM D854/CTM 207)	125
Specific gravity and absorption of coarse aggregate (AASHTO T85/ASTM C127/CTM 206)	100
- Total porosity - on Shelby tube sample (calculated from density & specific gravity)	165
- Total porosity - on other sample	155
Shrinkage limits (wax method, ASTM D4943)	126
Pinhole dispersion (ASTM D4647)	210
Dispersive characteristics (double hydrometer ASTM D4221)	90
As-received moisture & density (chunk/carved samples)	60
Sand Equivalent (AASHTO T176/ASTM D2419/CTM 217)	105
COMPACTION & PAVEMENT SUBGRADE TESTS	
Standard Proctor compaction, (ASTM D698) 4 points:	
- 4 inch diameter mold (Methods A & B)	160
- 6 inch diameter mold (Method C)	215
Modified Proctor compaction (ASTM D1557) 4 points:	
- 4 inch diameter mold (Methods A & B)	220
- 6 inch diameter mold (Method C)	245
Check point (per point)	65
Relative compaction of untreated/treated soils/aggregates (CTM 216)	250
Relative density (0.1 ft mold, ASTM D4253, D4254)	235

METHOD	$/TEST
California Bearing Ratio (CBR, ASTM D1883):	
- 3 point	500
- 1 point	185
R-Value (AASHTO T190/ASTM D2844/CTM 301) untreated soils/aggregates	310
R-Value (AASHTO T190/ASTM D2844/CTM 301) lime or cement treated soils/aggregates	340
SOIL CHEMISTRY & CORROSIVITY	
pH Method A (ASTM D4972 or CTM 643)	45
Electrical resistivity – single point – as received moisture	45
Minimum resistivity 3 moisture content points (ASTM G187/CTM 643)	90
pH + minimum resistivity (CTM 643)	130
Sulfate content - gravimetric (CTM 417 B Part II)	70
Sulfate screen (Hach®)	30
Chloride content (AASHTO T291/CTM 422)	70
Corrosion suite: minimum resistivity, sulfate, chloride, pH (CTM 643)	245
Organic matter content (ASTM D2974)	65
SHEAR STRENGTH	
Pocket penetrometer	15
Direct shear (ASTM D3080, mod., 3 points):	
-Consolidated undrained - 0.05 inch/min (CU)	285
-Consolidated drained - <0.05 inch/min (CD)	345
-Residual shear EM 1110-2-1906-IXA (price per each additional pass after shear)	50
Remolding or hand trimming of specimens (3 points)	90
Oriented or block hand trimming (per hour)	65
Single point shear	105
Torsional shear (ASTM D6467 / ASTM D7608)	820
CONSOLIDATION & EXPANSION/SWELL TESTS	
Consolidation (ASTM D2435):	195
-Each additional time curve	45
-Each additional load/unload w/o time reading	40
Expansion Index (EI, ASTM D4829)	130
Swell/collapse – Method A (ASTM D4546-A, up to 10 load/unloads w/o time curves)	290
Single load swell/collapse - Method B (ASTM D4546-B, seat, load & inundate only)	105

METHOD	$/TEST
TRIAXIAL TESTS	
Unconfined compression strength of cohesive soil (with stress/strain plot, ASTM D2166)	135
Unconsolidated undrained triaxial compression test on cohesive soils (USACE Q test, ASTM D2850, per confining stress)	170
Consolidated undrained triaxial compression test for cohesive soils, (ASTM D4767, CU, USACE R-bar test) with back pressure saturation & pore water pressure measurement (per confining stress)	375
Consolidated drained triaxial compression test (CD, USACE S test), with volume change measurement. Price per soil type below EM 1110-2-1906(X):	
- Sand or silty sand soils (per confining stress)	375
- Silt or clayey sand soils (per confining stress)	500
- Clay soils (per confining stress)	705
- Three-stage triaxial (sand or silty sand soils)	655
- Three-stage triaxial (silt or clayey sand soils)	875
- Three-stage triaxial (clay soils)	1,235
Remolding of test specimens	65

METHOD	$/TEST
HYDRAULIC CONDUCTIVITY TESTS	
Triaxial permeability in flexible-wall permeameter with backpressure saturation at one effective stress (EPA 9100/ASTM D5084, falling head Method C):	310
- Each additional effective stress	120
- Hand trimming of soil samples for horizontal K	60
Remolding of test specimens	65
Permeability of granular soils (ASTM D2434)	135
Soil suction (filter paper method, ASTM D5298)	400
SOIL-CEMENT	
Moisture-density curve for soil-cement mixtures (ASTM D558)	240
Wet-dry durability of soil-cement mixtures (ASTM D559) [1]	1,205
Compressive strength of molded soil-cement cylinder (ASTM D1633)[1]	60
Soil-cement remolded specimen (for shear strength, consolidation, etc.) [1]	235

[1] Compaction (ASTM D558 maximum density) should also be performed – not included in above price

CONSTRUCTION MATERIALS LABORATORY TESTING

METHOD	$/TEST
CONCRETE STRENGTH CHARACTERISTICS	
Concrete cylinders compression (ASTM C39) (6" x 12")	25
Concrete cylinders compression (ASTM C39) (4" x 8")	22
Compression, concrete or masonry cores (testing only) ≤6 inch (ASTM C42)	40
Trimming concrete cores (per core)	20
Flexural strength of concrete (simple beam-3rd pt. loading, ASTM C78/CTM 523)	85
Flexural strength of concrete (simple beam-center pt. loading, ASTM C293/CTM 523)	85
Non shrink grout cubes (2 inch, ASTM C109/C1107)	25
Drying shrinkage - four readings, up to 90 days, 3 bars (ASTM C157)	400
Length of drilled concrete cores (CTM 531)	40
HOT MIX ASPHALT (HMA)	
Resistance of compacted HMA to moisture-induced damage (AASHTO T283/CTM 371)	2,100
Hamburg Wheel, 4 briquettes (modified) (AASHTO T324)	900
Superpave gyratory compaction (AASHTO T312/ASTM D6925)	350
Extraction by ignition oven, percent asphalt (AASHTO T308/ASTM D6307/CTM 382)	150
Ignition oven correction/correlation values (AASHTO T308/ASTM D6307/CTM 382)	1,350
Extraction by centrifuge, percent asphalt (ASTM D2172)	150
Gradation of extracted aggregate (AASHTO T30/ASTM D5444/CTM 202)	135
Stabilometer, S-Value (ASTM D1560/CTM 366)	265
Bituminous mixture preparation (AASHTO R30/CTM 304)	80
Moisture content of HMA (AASHTO T329/ASTM D6037/CTM 370)	60
Bulk specific gravity of compacted HMA, molded specimen or cores, uncoated (AASHTO T166/ASTM D2726/CTM 308)	50
Bulk specific gravity of compacted HMA, molded specimen or cores, paraffin-coated (AASHTO T275/ASTM D1188/CTM 308)	55
Maximum density - Hveem (CTM 308)	200
Theoretical maximum density and specific gravity of HMA (AASHTO T209/ASTM D2041/CTM 309)	130
Thickness or height of compacted bituminous paving mixture specimens (ASTM D3549)	40
Rubberized asphalt (add to above rates)	+ 25%

METHOD	$/TEST
AGGREGATE PROPERTIES	
Bulk density and voids in aggregates (AASHTO T19/ASTM C29/ CTM 212)	50
Organic impurities in fine aggregate sand (AASHTO T21/ASTM C40/CTM 213)	60
LA Rattler-smaller coarse aggregate <1.5" (AASHTO T96/ASTM C131/ CTM 211)	200
LA Rattler-larger coarse aggregate 1-3" (AASHTO T96/ASTM C535/CTM 211)	250
Apparent specific gravity of fine aggregate (AASHTO T84/ASTM C128/ CTM 208)	130
Clay lumps, friable particles (AASHTO T112/ASTM C142)	175
Durability Index (AASHTO T210/ASTM D3744/CTM 229)	200
Moisture content of aggregates by oven drying (AASHTO T255/ ASTM C566/CTM 226)	40
Uncompacted void content of fine aggregate (AASHTO T304/ ASTM C1252/ CTM 234)	130
Percent of crushed particles (AASHTO T335/ASTM D5821/CTM 205)	135
Flat & elongated particles in coarse aggregate (ASTM D4791/CTM 235)	215
Cleanness value of coarse aggregate (CTM 227)	210
Soundness, magnesium (AASHTO T104/ASTM C88/CTM 214)	225
Soundness, sodium (AASHTO T104/ASTM C88/CTM 214)	650
MASONRY	
Mortar cylinders (2" by 4", ASTM C780)	25
Grout prisms (3" by 6", ASTM C1019)	25
Masonry cores compression, ≤6" diameter (testing only, ASTM C42)	40
CMU compression to size 8" x 8" x 16" (3 required, ASTM C140)	45
CMU moisture content, absorption & unit weight (6 required, ASTM C140)	40
CMU linear drying shrinkage (ASTM C426)	175
CMU grouted prisms (compression test ≤8" x 8" x 16", ASTM C1314)	180
CMU grouted prisms (compression test > 8" x 8" x 16", ASTM C1314)	250
Masonry core-shear, Title 24 (test only)	70
BRICK	
Compression (cost for each, 5 required, ASTM C67)	40

METHOD	$/TEST
REINFORCING STEEL	
Rebar tensile test up to ≤ No. 10 bars (ASTM A370)	45
Rebar tensile test > No. 10 bars ≤ No. 17, (ASTM A370)	100
Rebar bend test, up to ≤ No. 10 bars (ASTM A370)	45
Rebar bend test > No. 10 bars ≤ No. 17, (ASTM A370)	150
Epoxy coated rebar/dowel film thickness (coating) test (ASTM A775)	45
Epoxy coated rebar/dowel continuity (Holiday) test (ASTM A775)	65
Epoxy coated rebar flexibility/bend test, up to No. 11 (ASTM A775)	45
Tensile strength, ≤100,000 pounds axial load (ASTM A370)	45
Prestressing wire, tension (ASTM A416)	150
Sample preparation (cutting)	50
Resistance Butt-Welded Hoops/Bars, up to No. 10 (CTM 670)	180
Post-Tensioned Bars (ASTM A772)	420

METHOD	$/TEST
SPRAY APPLIED FIREPROOFING	
Unit weight (density, ASTM E605)	60
BEARING PADS/PLATES AND JOINT SEAL	
Elastomeric Bearing Pads (Caltrans SS 51-3)	990
Elastomeric Bearing Pad with Hardness and Compression Tests (Caltrans SS 51-3)	1230
Type A Joint Seals (Caltrans SS 51-2)	1620
Type B Joint Seals (Caltrans SS 51-2)	1530
Bearing Plates (A536)	720
STREET LIGHTS/SIGNALS	
100W HPS Lighting (Caltrans RSS 86)	1296
SAMPLE TRANSPORT	$/TRIP
Pick-up & delivery (weekdays, per trip, <50 mile radius from Leighton office)	90

EQUIPMENT, SUPPLIES & MATERIALS

	$/UNIT	
1/4 inch Grab plates	5	each
1/4 inch Tubing (bonded)	0.55	foot
1/4 inch Tubing (single)	0.35	foot
3/8 inch Tubing, clear vinyl	0.55	foot
4-Gas meter (RKI Eagle or similar)/GEM 2000	130	day
Air flow meter and purge pump (200 cc/min)	50	day
Box of 24 soil drive-sample rings	120	box
Brass sample tubes	10	each
Caution tape (1000-foot roll)	20	each
Combination lock or padlock	11	each
Compressed air tank and regulator	50	day
Concrete coring machine (≤6-inch-dia)	150	day
Consumables (gloves, rope, soap, tape, etc.)	35	day
Core sample boxes	11	each
Crack monitor	25	each
Cutoff saws, reciprocating, electric (Sawzall®)	75	day
Disposable bailers	12	each
Disposable bladders	10	each
Dissolved oxygen meter	45	day
DOT 55-gallon containment drum with lid	65	each
Double-ring infiltrometer	125	day
Dual-stage interface probe	80	day
Dynamic Cone Penetrometer	400	day
Generator, portable gasoline fueled, 3,500 watts	90	day
Global Positioning System/Laser Range Finder	80	day
Hand auger set	90	day
HDPE safety fence (≤100 feet)	40	roll
Horiba U-51 water quality meter	135	day
Light tower (towable vertical mast)	150	day
Magnehelic gauge	15	day

	$/UNIT	
Manometer	25	day
Mileage (IRS Allowable)	0.545	mile
Moisture test kit (excludes labor to perform test, ASTM E1907)	60	test
Nuclear moisture and density gauge	88	day
Pachometer	25	day
Particulate Monitor	125	day
pH/Conductivity/Temperature meter	55	day
Photo-Ionization Detector (PID)	120	day
Pump, Typhoon 2 or 4 stage	50	day
QED bladder pump w/QED control box	160	day
Resistivity field meter & pins	50	day
Slip / threaded cap, 2-inch or 4-inch diameter, PVC Schedule 40	15	each
Slope inclinometer	200	day
Soil sampling T-handle (Encore)	10	day
Soil sampling tripod	35	day
Stainless steel bailer	40	day
Submersible pump, 10 gpm, high powered Grunfos 2-inch with controller	160	day
Submersible pump/transfer pump, 10-25 gpm	50	day
Support service truck usage (well installation, etc.)	200	day
Survey/fence stakes	8	each
Tedlar® bags	18	each
Traffic cones (≤25)/barricades (single lane)	50	day
Turbidity meter	70	day
Tyvek® suit (each)	18	each
Vapor sampling box	55	day
Vehicle usage (carrying equipment)	13	hour
VelociCalc	35	day
Visqueen (20 x 100 feet)	100	roll
Water level indicator (electronic well sounder) <300 feet deep well	60	day
ZIPLEVEL®	15	day

Other specialized geotechnical and environmental testing & monitoring equipment are available, and priced per site

TERMS & CONDITIONS

- **Expiration:** This fee schedule is effective through December 31, 2018 after which remaining work will be billed at then-current rates.
- **Proposal Expiration:** Proposals are valid for at least 30 days, subject to change after 30 days; unless otherwise stated in the attached proposal.
- **Prevailing Wages:** Our fees for prevailing wage work based upon California prevailing wage laws and wage determinations.
- **Overtime:** Overtime for field personnel will be charged at 1.5 times basic hourly rates when exceeding 8 hours up to 12 hours per 24 hour interval, and 2 times basic hourly rates when exceeding 12 hours in 24 hours or on Sunday, and 3 times basic hourly rates on California official holidays.
- **Expert Witness Time:** Expert witness deposition and testimony will be charged at 2 times hourly rates listed on the previous pages, with a minimum charge of four hours per day.
- **Minimum Field Hourly Charges:** For Field Technicians, Special Inspectors or any on-site (field) materials testing services:
  - 4 hours: 4-hour minimum charge up to the first four hours of work
  - 8 hours: 8-hour minimum charge for over four hours of work, up to eight hours.

  Project time accrued includes portal to portal travel time.
- **Outside Direct Costs:** Heavy equipment, subcontractor fees and expenses, project-specific permits and/or licenses, project-specific supplemental insurance, travel, subsistence, project-specific parking charges, shipping, reproduction, and other reimbursable expenses will be invoiced at cost plus 18%, unless billed directly to and paid by client.
- **Insurance & Limitation of Liability:** These rates are predicated on standard insurance coverage and a limit of Leighton's liability equal to our total fees for a given project.
- **Invoicing:** Invoices are rendered monthly, payable upon receipt in United States dollars. A service charge of 1½-percent per month will be charged for late payment.
- **Client Disclosures:** Client agrees to provide all information in Client's possession about actual or possible presence of buried utilities and hazardous materials on the project site, prior to fieldwork, and agrees to reimburse Leighton for all costs related to unanticipated discovery of utilities and/or hazardous materials. Client is also responsible for providing safe and legal access to the project site for all Leighton field personnel.
- **Earth Material Samples:** Quoted testing unit rates are for soil and/or rock (earth) samples free of hazardous materials. Additional costs will accrue beyond these standard testing unit rates for handling, testing and/or disposing of soil and/or rock containing hazardous materials. Hazardous materials will be returned to the site or the site owner's designated representative at additional cost not included in listed unit rates. Standard turn-around time for geotechnical-laboratory test results is 10 working days. Samples will be stored for 2 months, after which they will be discarded. Prior documented notification is required if samples need to be stored for a longer time. A monthly storage fee of $10 per bag and $5 per sleeve or tube will be applied. Quoted unit rates are only for earth materials sampled in the United States. There may be additional cost for handling imported samples.
- **Construction Material Samples:** After all designated 28-day breaks for a given sample set meet specified compressive or other client-designated strength, all "hold" cylinders or specimens will be automatically disposed of, unless specified in writing prior to the 28-day break. All other construction materials will be disposed of after completion of testing and reporting