



Leighton Consulting, Inc.  
A LEIGHTON GROUP COMPANY

October 5, 2020

Proposal No. TE20-043b

Perris Union High School District  
155 E 4<sup>th</sup> Street  
Perris, California 92570

Attention: Mr. Hector Gonzalez, Director of Facilities

**Subject: Proposal for Geotechnical/Materials Testing and Special Inspection  
Proposed Perris High School Completion Phase, Increment 2  
175 East Nuevo Road, Perris, California  
DSA 04-118639-2**

In accordance with your request, we are pleased to present this proposal to provide geotechnical/materials testing and special inspection services during construction. Please note that a construction schedule was not available for us during preparation of this proposal.

## PROJECT DESCRIPTION

Our understanding of this project is primarily based on our review of project plans and specifications prepared by PJHM Architects (2020), review of provided DSA-103 form, project schedule/telecommunications with Miller Construction, and our soils report dated August 31, 2018. Based on our review, we understand that this phase of the school modernization project will generally include the following new buildings:

- 2-Story Administration Building
- 1-Story Visual and Performing Art Building
- 2-Story A/A Building
- 1-Story Vocational Shop Addition
- 1-Story AG Barn Structure
- 1-Story Relocatable Building
- Other Miscellaneous small structures and site work

## PROPOSED SCOPE OF WORK

Our proposed scope of work will consist of geotechnical/materials testing and special inspection services in accordance with Chapter 17A of the 2016 California Building Code (CBC) and other recognized authorities as specified in the provided project manual. The main disciplines or tasks expected on this project are summarized below:

- **Geotechnical Observation and Report:** We will perform part-time/as-needed geotechnical observation and testing during footing excavation, trench backfill, and subgrade preparation, where required or requested.
- **Tag and Sample (Off-Site):** We will pick up representative reinforcing steel samples and CMU blocks and “tag” source materials for site delivery identification. Samples will be tested as listed on the DSA-103 for this project.
- **Fresh Concrete Sampling and Testing (On-Site):** We will provide a technician that has been certified by the American Concrete Institute (ACI) as a technician for sampling concrete. Our field technicians will sample fresh concrete, perform slump tests (ASTM C 143) and (if requested) air content tests (ASTM C 173 or C 231) when requested by the DSA project inspector. Air content tests will only be performed if specifically requested. We will mold at least one set of concrete compression test cylinders for each 50 cubic-yards of concrete, or at least one set of cylinders each day concrete is placed. We will also provide an ACI technician during concrete batch plant operations. Our batch plant visits will consist of checking batch weights and proportions.
- **Post-Installed Anchors/Epoxy Dowels (On-Site):** We will provide a special inspector to observe installation of post-installed epoxy and screw/expansion (mechanical) concrete and masonry anchors. Our special inspector will view installation of these anchors in accordance with ICC-ES Evaluation Report, specific to anchors used. We will also provide pull, torque and/or proof testing, as necessary, of installed concrete anchors
- **Cast-In Place Reinforced Concrete:** Where applicable, 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). Batch plant inspection will be provided as required. Air content tests will only be performed if specifically requested (not expected to be required for this project). A set of four or five test specimens (cylinders) per 50 cubic yards (or portion thereof in a single day) placed per mix-design will be molded per ASTM C 31 for compressive strength testing.
- **Welding Inspection:** Our services will consist of inspection of welding procedures and welds for conformance to approved plans, specifications, and building codes. This inspection is generally performed on a continuous basis during structural welding. The inspector may use gamma ray, sonic or any other aid for visual inspection that he may deem necessary to assure the adequacy of the welding.
- **Structural Steel High Strength Bolting (On-Site):** We will provide an American Welding Society (AWS) Certified Welding Inspector (CWI) with ICC structural steel and bolting to verify high-strength bolting connection of beam to beam/column (including Skidmore-Wilhelm bolt tension verification testing).
- **Masonry Inspection:** The work for our DSA certified special inspectors for structural masonry will consist of inspection of placement of all reinforcing steel

and masonry units during the construction of the structures for compliance of the approved plans and job specifications. Their work will also include material testing of mortar and grout.

Reports of tests presenting applicable information will be prepared at the completion of laboratory testing, and electronic copies (PDFs) e-mailed. Our professional and clerical support services will also include the following:

- **Project Management/OC:** A California licensed Civil Engineer (PE) will review all DFRs and laboratory test results, and staff will prepare reports for distribution. Materials concerns encountered in the field and noted in DFRs, and any material tested and found to not conform to project specifications, will be brought to the attention of the District's designated representative and your DSA designated Project Inspector. Supervision, quality and project management will be provided by our Civil Engineer (PE) as Laboratory of Record (LOR).
- **Project Closeout:** We will prepare DSA-291 (Laboratory of Record Verified Report) and DSA-293 (Geotechnical Verified Report) forms as the inspection card requires (interims) and when the project is completed (final), which will be required by DSA to properly closeout this project. These forms will also be uploaded to the DSA "Box".

## 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



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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, 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),
- Shop welding inspection outside southern California or more than 1.5 hrs from project site, 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,
  6. Concrete mix design reviews and letters in excess of 2 mix designs.

A detailed breakdown of the estimated fee is included in Tables 1a and 1f attached. 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.

Table	Special Inspection and Materials Testing Services	Estimated Fee (\$)
1a	Geotechnical Engineering/Soils Testing – All Buildings/Utilities/Pavement	59,934
1c	Admin Building – Materials and Special Inspection	328,756
1c	Visual and Performing Arts Building - Materials and Special Inspection	340,730
1d	Ag Facilities (AG Barn, AG Shop) - Materials and Special Inspection	245,226
1e	Athletic Facilities (AO Building, Concession, Building C Alterations)	121,457
1f	Site Work – Misc Structures	128,966
<b>TOTAL:</b>		<b>\$1,225,069</b>

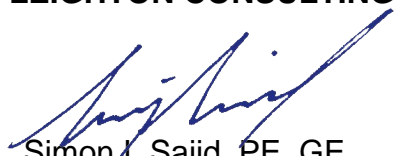
In the absence of a detailed construction schedule for the various buildings, we estimate that the above budget may vary upward or downward by 15 to 20 percent depending on actual construction schedule for the various tasks, especially CMU wall construction and structural steel welding. We recommend that our budget be updated once a construction schedule becomes available.

## CLOSURE

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: Tables 1a thru 1f – Breakdown of Estimated Fee  
Scope of Work Agreement  
Amended Fee Schedule

Distribution: (1) Addressee via electronic mail

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Table 1a: Estimated Fees

Perris HS Completion Phase Increment 2: 04-118639-02

Geotechnical Observation and Testing Services

Proposal # TE20-43b

TASK DESCRIPTION		RATE	UNITS	COST
<b>Pre-Construction Meeting/Project Review</b>				
Principal		\$221.00 / hour	2	\$442.00
Field Supervisor		\$132.00 / hour	2	\$264.00
Field Soils/Material Tester (Prevailing Wage)		\$117.00 / hour	2	\$234.00
Project Administrator/Word Processor		\$72.00 / hour	2	\$144.00
			<b>SUBTOTAL</b>	<b>\$1,084.00</b>
<b>Field Observation and Testing Services</b>				
Field Soils/Material Tester (Prevailing Wage)	Observation and Testing OX- Various Buildings	\$117.00 / hour	120	\$14,040.00
Field Soils/Material Tester (Prevailing Wage)	Utilities: water, sewer and storm including underground c	\$117.00 / hour	120	\$14,040.00
Field Soils/Material Tester (Prevailing Wage)	Pavement: Subgrade/AB/AC Testing	\$117.00 / hour	80	\$9,360.00
Field Soils/Material Tester (Prevailing Wage)	Footings/Retaining Wall Backfill	\$117.00 / hour	40	\$4,680.00
Vehicle Usage	Truck/equipment	\$14.000 / hour	360	\$5,040.00
Field Supervisor	4/hr per month - 3 months	\$132.00 / hour	8	\$1,056.00
			<b>SUBTOTAL</b>	<b>\$48,216.00</b>
<b>Laboratory Testing</b>				
Particle size - Sieve only 1½ inch to #200, (ASTM D6913/CTM 202)		\$135.00 / each	4	\$540.00
Expansion Index (EI, ASTM D4829)		\$130.00 / each	5	\$650.00
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	6	\$1,320.00
Modified Proctor compaction 6 inch mold (Method C ASTM D1557)		\$245.00 / each	2	\$490.00
R-Value (AASHTO T190/ASTM D2844/CTM 301) untreated soils/aggregates		\$310.00 / each	1	\$310.00
Corrosion suite: minimum resistivity, sulfate, chloride, pH (CTM 643)		\$265.00 / each	1	\$265.00
Pick-up & delivery – (weekdays, per trip, <50 miles from Leighton office)		\$90.00 / each	1	\$90.00
			<b>SUBTOTAL</b>	<b>\$3,980.00</b>
<b>Project Management/Reporting</b>				
Associate	PM/QC/ DSA Reports - various buildings	\$203.00 / hour	12	\$2,436.00
Senior Staff Engineer	Review lab/field reports and prepare DSA reports	\$149.00 / hour	18	\$2,682.00
Project Administrator/Word Processor	review reports/distribute/upload to DSA Box	\$72.00 / hour	14	\$1,008.00
Field Supervisor	Prepare plans	\$132.00 / hour	4	\$528.00
			<b>SUBTOTAL</b>	<b>\$6,654.00</b>
			<b>TOTAL ESTIMATED COST</b>	<b>\$59,934.00</b>



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**Table 1b - ADMIN BUILDING**

Perris HS Completion Phase Increment 2: 04-118639-02

Special Inspection and Materials Testing Services

Proposal # TE20-043b

TASK DESCRIPTION		RATE	UNITS	COST
<b>Off-Site / Source Inspection (Non-Prevailing Wage)</b>				
Special Inspector	Tag & Sample - Rebars	\$89.00 / hour	48	\$4,272.00
Special Inspector	Tag & Sample - CMU Blocks	\$89.00 / hour	16	\$1,424.00
Special Inspector	Tag & Sample - Anchor Rods, Anchor Bolts	\$89.00 / hour	16	\$1,424.00
Special Inspector	Concrete Batch Plant	\$89.00 / hour	240	\$21,360.00
Senior Special Inspector	Shop Fabrication (Structural Steel)	\$99.00 / hour	540	\$53,460.00
Non Destructive Testing (NDT)	Shop Fabrication - Ultrasonic, Magnetic Particle Testing	\$135.00 / hour	54	\$7,290.00
			<b>SUBTOTAL</b>	<b>\$89,230.00</b>
<b>Jobsite (Prevailing Wage)</b>				
Field Soils/Material Tester (Prevailing Wage)	Concrete - Sampling, Testing	\$119.00 / hour	240	\$28,560.00
Field Soils/Material Tester (Prevailing Wage)	Non-Shrink Grout - Sampling, Testing	\$119.00 / hour	24	\$2,856.00
Special Inspector (Prevailing Wage)	Post-Installed Anchors, Epoxy-Set Dowels	\$119.00 / hour	64	\$7,616.00
Special Inspector (Prevailing Wage)	DSA Masonry - Rebar, CMU Lay-Up, Mortar Joint, Grout	\$119.00 / hour	620	\$73,780.00
Special Inspector (Prevailing Wage)	Structural Steel - Welding, HS Bolting	\$119.00 / hour	440	\$52,360.00
Non Destructive Testing (Prevailing Wage)	Structural Steel - Ultrasonic, Magnetic Particle Testing	\$135.00 / hour	44	\$5,940.00
			<b>SUBTOTAL</b>	<b>\$171,112.00</b>
<b>Material Laboratory Testing</b>				
Reports - Test Results		\$17.00 / each	200	\$3,400.00
Rebar tensile test up to ≤ No. 10 bars (ASTM A370)		\$45.00 / each	54	\$2,430.00
Rebar bend test, up to No. 11 (ASTM A370)		\$45.00 / each	54	\$2,430.00
Concrete cylinders compression (ASTM C39 4" x 8")		\$22.00 / each	400	\$8,800.00
Non shrink grout cubes (2", ASTM C109/C 1107)		\$25.00 / each	12	\$300.00
CMU compression to size 8" x 8" x 16" (3 required, ASTM C140)		\$45.00 / each	18	\$810.00
CMU moisture content, absorption & unit weight (6 required, ASTM C140)		\$40.00 / each	18	\$720.00
Grout prisms (3" by 6", ASTM C1019)		\$25.00 / each	64	\$1,600.00
Masonry core-shear, Title 24 (test only)		\$80.00 / each	24	\$1,920.00
CMU grouted prisms (compression test ≤ 8" x 8" x 16", ASTM E 447 C 1314)		\$180.00 / each	6	\$1,080.00
CMU grouted prisms (compression test > 8" x 8" x 16", ASTM E 447 C 1314)		\$250.00 / each	6	\$1,500.00
F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370)		\$75.00 /	24	\$1,800.00
F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370)		\$120.00 /	8	\$960.00
Pick-up & delivery – (weekdays, per trip, <50 miles from Leighton office)		\$90.00 / each	100	\$9,000.00
			<b>SUBTOTAL</b>	<b>\$36,750.00</b>
<b>Subcontractors</b>				
Coring Sub-Contractor		\$175.00 / hour	20	\$3,500.00
			<b>SUBTOTAL</b>	<b>\$3,500.00</b>
<b>Office Support, Management, Quality Review and Reporting</b>				
Principal	Project Management	\$221.00 / hour	16	\$3,536.00
Associate	Review Submittals, Concrete Mix, WPS, etc.	\$203.00 / hour	24	\$4,872.00
Associate	291s, Interims, Final	\$203.00 / hour	32	\$6,496.00
Senior Staff Engineer	QA/QC - Inspection / Laboratory Test Reports	\$149.00 / hour	60	\$8,940.00
Project Administrator/Word Processor	Report and Distribution	\$72.00 / hour	30	\$2,160.00
Dispatcher	Scheduling	\$72.00 / hour	30	\$2,160.00
			<b>SUBTOTAL</b>	<b>\$28,164.00</b>
<b>TOTAL ESTIMATED COST</b>				<b>\$328,756.00</b>





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**Table 1c- VISUAL AND PERFORMING ARTS BUILDING**

Perris HS Completion Phase Increment 2: 04-118639-02

Special Inspection and Materials Testing Services

Proposal # TE20-043

TASK DESCRIPTION		RATE	UNITS	COST
<b>Off-Site / Source Inspection (Non-Prevailing Wage)</b>				
Special Inspector	Tag & Sample - Rebars	\$89.00 / hour	48	\$4,272.00
Special Inspector	Tag & Sample - CMU Blocks	\$89.00 / hour	16	\$1,424.00
Special Inspector	Tag & Sample - Anchor Rods, Anchor Bolts	\$89.00 / hour	16	\$1,424.00
Special Inspector	Concrete Batch Plant	\$89.00 / hour	240	\$21,360.00
Senior Special Inspector	Shop Fabrication (Structural Steel)	\$99.00 / hour	560	\$55,440.00
Non Destructive Testing (NDT)	Shop Fabrication - Ultrasonic, Magnetic Particle Testing	\$135.00 / hour	56	\$7,560.00
			<b>SUBTOTAL</b>	<b>\$91,480.00</b>
<b>Jobsite (Prevailing Wage)</b>				
Field Soils/Material Tester (Prevailing Wage)	Concrete - Sampling, Testing	\$119.00 / hour	240	\$28,560.00
Field Soils/Material Tester (Prevailing Wage)	Non-Shrink Grout - Sampling, Testing	\$119.00 / hour	24	\$2,856.00
Special Inspector (Prevailing Wage)	Post-Installed Anchors, Epoxy-Set Dowels	\$119.00 / hour	64	\$7,616.00
Special Inspector (Prevailing Wage)	DSA Masonry - Rebar, CMU Lay-Up, Mortar Joint, Grout	\$119.00 / hour	640	\$76,160.00
Special Inspector (Prevailing Wage)	Structural Steel - Welding, HS Bolting	\$119.00 / hour	460	\$54,740.00
Non Destructive Testing (Prevailing Wage)	Structural Steel - Ultrasonic, Magnetic Particle Testing	\$135.00 / hour	64	\$8,640.00
			<b>SUBTOTAL</b>	<b>\$178,572.00</b>
<b>Material Laboratory Testing</b>				
Reports - Test Results		\$17.00 / each	208	\$3,536.00
Rebar tensile test up to ≤ No. 10 bars (ASTM A370)		\$45.00 / each	60	\$2,700.00
Rebar bend test, up to No. 11 (ASTM A370)		\$45.00 / each	60	\$2,700.00
Concrete cylinders compression (ASTM C39 4" x 8")		\$22.00 / each	400	\$8,800.00
Non shrink grout cubes (2", ASTM C109/C 1107)		\$25.00 / each	12	\$300.00
CMU compression to size 8" x 8" x 16" (3 required, ASTM C140)		\$45.00 / each	18	\$810.00
CMU moisture content, absorption & unit weight (6 required, ASTM C140)		\$40.00 / each	18	\$720.00
Grout prisms (3" by 6", ASTM C1019)		\$25.00 / each	80	\$2,000.00
Masonry core-shear, Title 24 (test only)		\$80.00 / each	24	\$1,920.00
CMU grouted prisms (compression test ≤8" x 8" x 16", ASTM E 447 C 1314)		\$180.00 / each	6	\$1,080.00
CMU grouted prisms (compression test > 8" x 8" x 16", ASTM E 447 C 1314)		\$250.00 / each	6	\$1,500.00
F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370)		\$75.00 /	24	\$1,800.00
F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370)		\$120.00 /	8	\$960.00
Pick-up & delivery – (weekdays, per trip, <50 miles from Leighton office)		\$90.00 / each	110	\$9,900.00
			<b>SUBTOTAL</b>	<b>\$38,726.00</b>
<b>Subcontractors</b>				
Coring Sub-Contractor		\$175.00 / hour	20	\$3,500.00
			<b>SUBTOTAL</b>	<b>\$3,500.00</b>
<b>Office Support, Management, Quality Review and Reporting</b>				
Principal	Project Management	\$221.00 / hour	16	\$3,536.00
Associate	Review Submittals, Concrete Mix, WPS, etc.	\$203.00 / hour	24	\$4,872.00
Associate	291s, Interims, Final	\$203.00 / hour	32	\$6,496.00
Senior Staff Engineer	QA/QC - Inspection / Laboratory Test Reports	\$149.00 / hour	60	\$8,940.00
Project Administrator/Word Processor	Report and Distribution	\$72.00 / hour	32	\$2,304.00
Dispatcher	Scheduling	\$72.00 / hour	32	\$2,304.00
			<b>SUBTOTAL</b>	<b>\$28,452.00</b>
<b>TOTAL ESTIMATED COST</b>				<b>\$340,730.00</b>





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Table 1d - AGRICULTURAL FACILITIES (AG BARN, AG SHOP)

Perris HS Completion Phase Increment 2: 04-118639-02

Special Inspection and Materials Testing Services

Proposal # TE20-043

TASK DESCRIPTION		RATE	UNITS	COST
<b>Off-Site / Source Inspection (Non-Prevailing Wage)</b>				
Special Inspector	Tag & Sample - Rebars	\$89.00 / hour	36	\$3,204.00
Special Inspector	Tag & Sample - CMU Blocks	\$89.00 / hour	20	\$1,780.00
Special Inspector	Tag & Sample - Anchor Rods, Anchor Bolts	\$89.00 / hour	12	\$1,068.00
Special Inspector	Concrete Batch Plant	\$89.00 / hour	148	\$13,172.00
Senior Special Inspector	Shop Fabrication (Structural Steel)	\$99.00 / hour	420	\$41,580.00
Non Destructive Testing (NDT)	Shop Fabrication - Ultrasonic, Magnetic Particle Testing	\$135.00 / hour	42	\$5,670.00
			<b>SUBTOTAL</b>	<b>\$66,474.00</b>
<b>Jobsite (Prevailing Wage)</b>				
Field Soils/Material Tester (Prevailing Wage)	Concrete - Sampling, Testing	\$119.00 / hour	148	\$17,612.00
Special Inspector (Prevailing Wage)	Post-Installed Anchors, Epoxy-Set Dowels	\$119.00 / hour	40	\$4,760.00
Special Inspector (Prevailing Wage)	DSA Masonry - Rebar, CMU Lay-Up, Mortar Joint, Grout	\$119.00 / hour	500	\$59,500.00
Special Inspector (Prevailing Wage)	Structural Steel - Welding, HS Bolting	\$119.00 / hour	360	\$42,840.00
Non Destructive Testing (Prevailing Wage)	Structural Steel - Ultrasonic, Magnetic Particle Testing	\$135.00 / hour	36	\$4,860.00
			<b>SUBTOTAL</b>	<b>\$129,572.00</b>
<b>Material Laboratory Testing</b>				
Reports - Test Results		\$17.00 / each	130	\$2,210.00
Rebar tensile test up to ≤ No. 10 bars (ASTM A370)		\$45.00 / each	40	\$1,800.00
Rebar bend test, up to No. 11 (ASTM A370)		\$45.00 / each	40	\$1,800.00
Concrete cylinders compression (ASTM C39 4" x 8")		\$22.00 / each	250	\$5,500.00
CMU compression to size 8" x 8" x 16" (3 required, ASTM C140)		\$45.00 / each	12	\$540.00
CMU moisture content, absorption & unit weight (6 required, ASTM C140)		\$40.00 / each	12	\$480.00
Grout prisms (3" by 6", ASTM C1019)		\$25.00 / each	48	\$1,200.00
Masonry core-shear, Title 24 (test only)		\$80.00 / each	20	\$1,600.00
CMU grouted prisms (compression test ≤8" x 8" x 16", ASTM E 447 C 1314)		\$180.00 / each	15	\$2,700.00
F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370)		\$75.00 /	16	\$1,200.00
F1554 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370)		\$120.00 /	4	\$480.00
Pick-up & delivery – (weekdays, per trip, <50 miles from Leighton office)		\$90.00 / each	70	\$6,300.00
			<b>SUBTOTAL</b>	<b>\$25,810.00</b>
<b>Subcontractors</b>				
Coring Sub-Contractor		\$175.00 / hour	24	\$4,200.00
			<b>SUBTOTAL</b>	<b>\$4,200.00</b>
<b>Office Support, Management, Quality Review and Reporting</b>				
Principal	Project Management	\$221.00 / hour	10	\$2,210.00
Associate	Review Submittals, Concrete Mix, WPS, etc.	\$203.00 / hour	16	\$3,248.00
Associate	291s, Interims, Final	\$203.00 / hour	24	\$4,872.00
Senior Staff Engineer	QA/QC - Inspection / Laboratory Test Reports	\$149.00 / hour	40	\$5,960.00
Project Administrator/Word Processor	Report and Distribution	\$72.00 / hour	20	\$1,440.00
Dispatcher	Scheduling	\$72.00 / hour	20	\$1,440.00
			<b>SUBTOTAL</b>	<b>\$19,170.00</b>
<b>TOTAL ESTIMATED COST</b>				<b>\$245,226.00</b>



**Leighton Consulting, Inc.**

**Table 1e - ATHLETIC FACILITIES (AO BID, BUILDING C ALTERATIONS, MODULAR CONCESSION BUILDING)**

Perris HS Completion Phase Increment 2: 04-118639-02

Special Inspection and Materials Testing Services

Proposal # TE20-043

TASK DESCRIPTION		RATE	UNITS	COST
<b>Off-Site / Source Inspection (Non-Prevailing Wage)</b>				
Special Inspector	Tag & Sample - Rebars	\$89.00 / hour	40	\$3,560.00
Special Inspector	Tag & Sample - CMU Blocks	\$89.00 / hour	16	\$1,424.00
Special Inspector	Concrete Batch Plant	\$89.00 / hour	100	\$8,900.00
Senior Special Inspector	Shop Fabrication (Structural Steel)	\$99.00 / hour	188	\$18,612.00
Non Destructive Testing (NDT)	Shop Fabrication - Ultrasonic, Magnetic Particle Testing	\$135.00 / hour	20	\$2,700.00
<b>SUBTOTAL</b>				<b>\$35,196.00</b>
<b>Jobsite (Prevailing Wage)</b>				
Field Soils/Material Tester (Prevailing Wage)	Concrete - Sampling, Testing	\$119.00 / hour	100	\$11,900.00
Special Inspector (Prevailing Wage)	Post-Installed Anchors, Epoxy-Set Dowels	\$119.00 / hour	40	\$4,760.00
Special Inspector (Prevailing Wage)	DSA Masonry - Rebar, CMU Lay-Up, Mortar Joint, Grout	\$119.00 / hour	200	\$23,800.00
Special Inspector (Prevailing Wage)	Structural Steel - Welding, HS Bolting	\$119.00 / hour	148	\$17,612.00
Non Destructive Testing (Prevailing Wage)	Structural Steel - Ultrasonic, Magnetic Particle Testing	\$135.00 / hour	16	\$2,160.00
<b>SUBTOTAL</b>				<b>\$60,232.00</b>
<b>Material Laboratory Testing</b>				
Reports - Test Results		\$17.00 / each	70	\$1,190.00
Rebar tensile test up to ≤ No. 10 bars (ASTM A370)		\$45.00 / each	24	\$1,080.00
Rebar bend test, up to No. 11 (ASTM A370)		\$45.00 / each	24	\$1,080.00
Concrete cylinders compression (ASTM C39 4" x 8")		\$22.00 / each	160	\$3,520.00
CMU compression to size 8" x 8" x 16" (3 required, ASTM C140)		\$45.00 / each	6	\$270.00
CMU moisture content, absorption & unit weight (6 required, ASTM C140)		\$40.00 / each	6	\$240.00
Grout prisms (3" by 6", ASTM C1019)		\$25.00 / each	24	\$600.00
Masonry core-shear, Title 24 (test only)		\$80.00 / each	8	\$640.00
CMU grouted prisms (compression test ≤ 8" x 8" x 16", ASTM E 447 C 1314)		\$180.00 / each	3	\$540.00
F3125 GR A307, A325 Bolts, tensile test, ≤ up to 1-1/4" diameter, galvanized (ASTM A370)		\$75.00 /	9	\$675.00
Pick-up & delivery – (weekdays, per trip, <50 miles from Leighton office)		\$90.00 / each	40	\$3,600.00
<b>SUBTOTAL</b>				<b>\$13,435.00</b>
<b>Subcontractors</b>				
Coring Sub-Contractor		\$175.00 / hour	8	\$1,400.00
<b>SUBTOTAL</b>				<b>\$1,400.00</b>
<b>Office Support, Management, Quality Review and Reporting</b>				
Principal	Project Management	\$221.00 / hour	10	\$2,210.00
Associate	Review Submittals, Concrete Mix, WPS, etc.	\$203.00 / hour	12	\$2,436.00
Associate	291s, Interims, Final	\$203.00 / hour	12	\$2,436.00
Senior Staff Engineer	QA/QC - Inspection / Laboratory Test Reports	\$149.00 / hour	16	\$2,384.00
Project Administrator/Word Processor	Report and Distribution	\$72.00 / hour	12	\$864.00
Dispatcher	Scheduling	\$72.00 / hour	12	\$864.00
<b>SUBTOTAL</b>				<b>\$11,194.00</b>
<b>TOTAL ESTIMATED COST</b>				<b>\$121,457.00</b>



**Leighton Consulting, Inc.**

**Table 1f - Misc Site Work**

Perris HS Completion Phase Increment 2: 04-118639-02

Special Inspection and Materials Testing Services

Proposal # TE20-043

TASK DESCRIPTION		RATE	UNITS	COST
<b>Off-Site / Source Inspection (Non-Prevailing Wage)</b>				
Special Inspector	Tag & Sample - Rebars	\$89.00 / hour	24	\$2,136.00
Special Inspector	Tag & Sample - CMU Blocks	\$89.00 / hour	16	\$1,424.00
Special Inspector	Concrete Batch Plant	\$89.00 / hour	96	\$8,544.00
Senior Special Inspector	Shop Fabrication (Structural Steel)	\$99.00 / hour	200	\$19,800.00
Non Destructive Testing (NDT)	Shop Fabrication (Structural Steel)	\$135.00 / hour	20	\$2,700.00
<b>SUBTOTAL</b>				<b>\$34,604.00</b>
<b>Jobsite (Prevailing Wage)</b>				
Field Soils/Material Tester (Prevailing Wage)	Concrete - Sampling, Testing	\$119.00 / hour	96	\$11,424.00
Field Soils/Material Tester (Prevailing Wage)	Non-Shrink Grout - Sampling, Testing	\$119.00 / hour	12	\$1,428.00
Special Inspector (Prevailing Wage)	Post-Installed Anchors, Epoxy-Set Dowels	\$119.00 / hour	16	\$1,904.00
Special Inspector (Prevailing Wage)	DSA Masonry - Rebar, CMU Lay-Up, Mortar Joint, Grout	\$119.00 / hour	240	\$28,560.00
Special Inspector (Prevailing Wage)	Structural Steel - Welding, HS Bolting	\$119.00 / hour	160	\$19,040.00
Non Destructive Testing (Prevailing Wage)	Structural Steel - Ultrasonic, Magnetic Particle Testing	\$135.00 / hour	16	\$2,160.00
<b>SUBTOTAL</b>				<b>\$64,516.00</b>
<b>Material Laboratory Testing</b>				
Reports - Test Results		\$17.00 / each	80	\$1,360.00
Rebar tensile test up to ≤ No. 10 bars (ASTM A370)		\$45.00 / each	24	\$1,080.00
Rebar bend test, up to No. 11 (ASTM A370)		\$45.00 / each	24	\$1,080.00
Prestressing wire, tension (stress vs. strain plot, ASTM A 416)		\$150.00 / each	4	\$600.00
Concrete cylinders compression (ASTM C39 4" x 8")		\$22.00 / each	200	\$4,400.00
Non shrink grout cubes (2", ASTM C109/C 1107)		\$25.00 / each	6	\$150.00
CMU compression to size 8" x 8" x 16" (3 required, ASTM C140)		\$45.00 / each	6	\$270.00
CMU moisture content, absorption & unit weight (6 required, ASTM C140)		\$40.00 / each	12	\$480.00
Grout prisms (3" by 6", ASTM C1019)		\$25.00 / each	36	\$900.00
Masonry core-shear, Title 24 (test only)		\$80.00 / each	12	\$960.00
CMU grouted prisms (compression test ≤ 8" x 8" x 16", ASTM E 447 C 1314)		\$180.00 / each	3	\$540.00
CMU grouted prisms (compression test > 8" x 8" x 16", ASTM E 447 C 1314)		\$250.00 / each	3	\$750.00
Pick-up & delivery – (weekdays, per trip, <50 miles from Leighton office)		\$90.00 / each	40	\$3,600.00
<b>SUBTOTAL</b>				<b>\$16,170.00</b>
<b>Subcontractors</b>				
Coring Sub-Contractor		\$175.00 / hour	20	\$3,500.00
<b>SUBTOTAL</b>				<b>\$3,500.00</b>
<b>Office Support, Management, Quality Review and Reporting</b>				
Principal	Project Management	\$221.00 / hour	8	\$1,768.00
Associate	Review Submittals, Concrete Mix, WPS, etc.	\$203.00 / hour	8	\$1,624.00
Associate	291s, Interims, Final	\$203.00 / hour	16	\$3,248.00
Senior Staff Engineer	QA/QC - Inspection / Laboratory Test Reports	\$149.00 / hour	16	\$2,384.00
Project Administrator/Word Processor	Report and Distribution	\$72.00 / hour	8	\$576.00
Dispatcher	Scheduling	\$72.00 / hour	8	\$576.00
<b>SUBTOTAL</b>				<b>\$10,176.00</b>
<b>TOTAL ESTIMATED COST</b>				<b>\$128,966.00</b>



## SCOPE OF WORK AGREEMENT

This Scope of Work, effective October 22, 2020, is, upon execution of the Parties, incorporated as Scope of Work Number \_\_\_\_ under Master Services Agreement No. C72380M by and between Leighton Consulting, Inc. and Perris Union High School District ("CLIENT").

**PROJECT LOCATION:** Proposed Perris High School Completion Phase , Increment 2, 175 East Nuevo Road, Perris, California DSA 04-118639-02

**DESCRIPTION OF SERVICES:** Proposal for Geotechnical, Materials Testing and Special Inspection, see attached proposal.

**LEIGHTON CONSULTING:**

41715 Enterprise Circle N, Suite 103  
Temecula, California 92560  
Telephone: 951.296.0530  
Facsimile: 951.296.0534  
Prime Contact: **Mr. Simon Saiid**

**CLIENT**

**PERRIS UNION HIGH SCHOOL DISTRICT**

155 E 4th Street  
Perris, California 92570  
Telephone: 951.232.9207  
email: hector.gonzalez@puhsd.org  
Prime Contact: **Mr. Hector Gonzalez**

**FEE:** The Services shall be undertaken on a time and expense basis in the amount of One Million Two Hundred Twenty-Five Thousand Sixty Nine Dollars (**\$1,225,069**), payable upon receipt of invoice.

I have reviewed and agree to this scope of work.

**LEIGHTON CONSULTING, INC.**



By (Signature)

Simon I. Saiid  
(Print Name)

10/05/2020  
Date

**PERRIS UNION HIGH SCHOOL DISTRICT**  
client

By (Signature)

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
Date

**CLIENT ACKNOWLEDGES THAT THEY HAVE READ AND UNDERSTANDS THE DOCUMENT ENTITLED "INFORMATION FOR CLIENTS REGARDING LEIGHTON CONSULTING'S SERVICES"**





# AMENDED PROFESSIONAL FEE SCHEDULE

## CLASSIFICATION

Technician I	78
Technician II / Special Inspector	89
Senior Technician / Senior Special Inspector	99
Prevailing Wage (field soils / materials tester) *	117
Prevailing Wage (Special Inspector) *	119
Prevailing Wage (Source Inspector, NDT and soil remediation O&M)*	135
System Operation & Maintenance (O&M) Specialist	129
Non Destructive Testing (NDT)	135
Deputy Inspector	99
Field / Laboratory Supervisor	132
Source Inspector	122
City of Los Angeles Deputy Building (including Grading) Inspector	140

\* See Prevailing Wages in Terms and Conditions

## CLASSIFICATION

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	149
Operations / Laboratory Manager	162
Project Engineer / Geologist / Scientist	167
Senior Project Engineer / Geologist / Scientist / SMR	185
Associate	203
Principal	221
Senior Principal	266

## 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 D7928)	110
- Sieve + hydrometer (≤3 inch sieve, ASTM 7928)	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)	165
- Total porosity - on other sample (calculated)	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 (SE, 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	
- 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 2)	70
Sulfate content - by ion chromatograph (CTM 417 Part 2)	80
Sulfate screen (Hach®)	30
Chloride content (AASHTO T291/CTM 422)	70
Chloride content – by ion chromatograph (AASHTO T291/CTM 422)	80
Corrosion suite: minimum resistivity, sulfate, chloride, pH (CTM 643)	265
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	METHOD	\$/TEST
<b>TRIAXIAL TESTS</b>		<b>HYDRAULIC CONDUCTIVITY TESTS</b>	
Unconfined compression strength of cohesive soil (with stress/strain plot, ASTM D2166)	135	Triaxial permeability in flexible-wall permeameter with backpressure saturation at one effective stress (EPA 9100/ASTM D5084, falling head Method C):	310
Unconsolidated undrained triaxial compression test on cohesive soils (UU, ASTM D2850, USACE Q test, per confining stress)	170	- Each additional effective stress	120
Consolidated undrained triaxial compression test for cohesive soils, (CU, ASTM D4767, USACE R-bar test) with back pressure saturation & pore water pressure measurement (per confining stress)	375	- Hand trimming of soil samples for horizontal K	60
Consolidated drained triaxial compression test (CD, USACE S test), with volume change measurement. Price per soil type below EM 1110-2-1906(X):		Remolding of test specimens	65
- Sand or silty sand soils (per confining stress)	375	Permeability of granular soils (ASTM D2434)	135
- Silt or clayey sand soils (per confining stress)	500	Soil suction (filter paper method, ASTM D5298)	400
- Clay soils (per confining stress)	705		
- Three-stage triaxial (sand or silty sand soils)	655	<b>SOIL-CEMENT</b>	
- Three-stage triaxial (silt or clayey sand soils)	875	Moisture-density curve for soil-cement mixtures (ASTM D558)	240
- Three-stage triaxial (clay soils)	1,235	Wet-dry durability of soil-cement mixtures (ASTM D559) <sup>1</sup>	1,205
Remolding of test specimens	65	Compressive strength of molded soil-cement cylinder (ASTM D1633) <sup>1</sup>	60
		Soil-cement remolded specimen (for shear strength, consolidation, etc.) <sup>1</sup>	235
		<sup>1</sup> Compaction (ASTM D558 maximum density) should also be performed – not included in above price	

**CONSTRUCTION MATERIALS LABORATORY TESTING**

METHOD	\$/TEST	METHOD	\$/TEST
<b>CONCRETE STRENGTH CHARACTERISTICS</b>		<b>AGGREGATE PROPERTIES</b>	
Concrete cylinders compression (ASTM C39) (6" x 12")	25	Bulk density and voids in aggregates (AASHTO T19/ASTM C29/CTM 212)	50
Concrete cylinders compression (ASTM C39) (4" x 8")	22	Organic impurities in fine aggregate sand (AASHTO T21/ASTM C40/CTM 213)	60
Compression, concrete or masonry cores (testing only) ≤6 inch (ASTM C42)	40	LA Rattler-smaller coarse aggregate <1.5" (AASHTO T96/ASTM C131/CTM 211)	200
Trimming concrete cores (per core)	20	LA Rattler-larger coarse aggregate 1-3" (AASHTO T96/ASTM C535/CTM 211)	250
Flexural strength of concrete (simple beam-3rd pt. loading, ASTM C78/CTM 523)	85	Apparent specific gravity of fine aggregate (AASHTO T84/ASTM C128/CTM 208)	130
Flexural strength of concrete (simple beam-center pt. loading, ASTM C293/CTM 523)	85	Clay lumps, friable particles (AASHTO T112/ASTM C142)	175
Non shrink grout cubes (2 inch, ASTM C109/C1107)	25	Durability Index (AASHTO T210/ASTM D3744/CTM 229)	200
Drying shrinkage - four readings, up to 90 days, 3 bars (ASTM C157)	400	Moisture content of aggregates by oven drying (AASHTO T255/ASTM C566/CTM 226)	40
Length of concrete cores (CTM 531)	40	Uncompacted void content of fine aggregate (AASHTO T304/ASTM C1252/CTM 234)	130
<b>HOT MIX ASPHALT (HMA)</b>		Percent of crushed particles (AASHTO T335/ASTM D5821/CTM 205)	135
Resistance of compacted HMA to moisture-induced damage (AASHTO T283/CTM 371)	2,100	Flat & elongated particles in coarse aggregate (ASTM D4791/CTM 235)	215
Hamburg Wheel, 4 briquettes (modified) (AASHTO T324)	900	Cleanliness value of coarse aggregate (CTM 227)	210
Superpave gyratory compaction (AASHTO T312/ASTM D6925)	350	Soundness, magnesium (AASHTO T104/ASTM C88/CTM 214)	225
Extraction by ignition oven, percent asphalt (AASHTO T308/ASTM D6307/CTM 382)	150	Soundness, sodium (AASHTO T104/ASTM C88/CTM 214)	650
Ignition oven correction/correlation values (AASHTO T308/ASTM D6307/CTM 382)	1,350	<b>MASONRY</b>	
Extraction by centrifuge, percent asphalt (ASTM D2172)	150	Mortar cylinders (2" by 4", ASTM C780)	25
Gradation of extracted aggregate (AASHTO T30/ASTM D5444/CTM 202)	135	Grout prisms (3" by 6", ASTM C1019)	25
Stabilometer, S-Value (ASTM D1560/CTM 366)	265	Masonry cores compression, ≤6" diameter (testing only, ASTM C42)	40
Bituminous mixture preparation (AASHTO R30/CTM 304)	80	Masonry core-shear, Title 24 (test only)	80
Moisture content of HMA (AASHTO T329/ASTM D6037/CTM 370)	60	Veneer bond strength, cost for each (5 required, ASTM C482)	55
Bulk specific gravity of compacted HMA, molded specimen or cores, uncoated (AASHTO T166/ASTM D2726/CTM 308)	50	CMU compression to size 8" x 8" x 16" (3 required, ASTM C140)	45
Bulk specific gravity of compacted HMA, molded specimen or cores, paraffin-coated (AASHTO T275/ASTM D1188/CTM 308)	55	CMU moisture content, absorption & unit weight (6 required, ASTM C140)	40
Maximum density - Hveem (CTM 308)	200	CMU linear drying shrinkage (ASTM C426)	175
Theoretical maximum density and specific gravity of HMA (AASHTO T209/ASTM D2041/CTM 309)	130	CMU grouted prisms (compression test ≤8" x 8" x 16", ASTM C1314)	180
Thickness or height of compacted bituminous paving mixture specimens (ASTM D3549)	40	CMU grouted prisms (compression test > 8" x 8" x 16", ASTM C1314)	250
Wet track abrasion of slurry seal (ASTM D3910)	150	<b>BRICK</b>	
Rubberized asphalt (add to above rates)	+ 25%	Compression (cost for each, 5 required, ASTM C67)	40

METHOD	\$/TEST	METHOD	\$/TEST
<b>REINFORCING STEEL</b>		<b>SPRAY APPLIED FIREPROOFING</b>	
Rebar tensile test up to ≤ No. 10 bars (ASTM A370)	45	Unit weight (density, ASTM E605)	60
Rebar tensile test > No. 10 bars ≤ No. 17 (ASTM A370)	100	<b>BEARING PADS/PLATES AND JOINT SEAL</b>	
Rebar bend test, up to ≤ No. 10 bars (ASTM A370)	45	Elastomeric bearing pads (Caltrans SS 51-3)	990
Rebar bend test > No. 10 bars ≤ No. 17 (ASTM A370)	150	Elastomeric bearing pad with hardness and compression tests (Caltrans SS 51-3)	1230
Epoxy coated rebar/dowel film thickness (coating) test (ASTM A775)	45	Type A Joint Seals (Caltrans SS 51-2)	1620
Epoxy coated rebar/dowel continuity (Holiday) test (ASTM A775)	65	Type B Joint Seals (Caltrans SS 51-2)	1530
Epoxy coated rebar flexibility/bend test, up to No. 11 (ASTM A775)	55	Bearing plates (A536)	720
Tensile strength, ≤100,000 pounds axial load (ASTM A370)	45	<b>STREET LIGHTS/SIGNALS</b>	
Prestressing wire, tension (ASTM A416)	150	100W HPS Lighting (Caltrans RSS 86)	1296
Sample preparation (cutting)	50	<b>SAMPLE TRANSPORT</b>	
Resistance butt-welded hoops/bars, up to No. 10 (CTM 670)	180	Pick-up & delivery (weekdays, per trip, <50 mile radius from Leighton office)	90
Post-tensioned bars (ASTM A772)	420		

**EQUIPMENT, SUPPLIES & MATERIALS**

	\$/UNIT		\$/UNIT
1/4 inch Grab plates	5 each	Mileage (IRS Allowable)	0.58 mile
1/4 inch Tubing (bonded)	0.55 foot	Moisture test kit (excludes labor to perform test, ASTM E1907)	60 test
1/4 inch Tubing (single)	0.35 foot	Nuclear moisture and density gauge	88 day
3/8 inch Tubing, clear vinyl	0.55 foot	Pachometer	25 day
4-Gas meter (RKI Eagle or similar)/GEM 2000	130 day	Particulate Monitor	125 day
Air flow meter and purge pump (200 cc/min)	50 day	pH/Conductivity/Temperature meter	55 day
Box of 24 soil drive-sample rings	120 box	Photo-Ionization Detector (PID)	120 day
Brass sample tubes	10 each	Pump, Typhoon 2 or 4 stage	50 day
Caution tape (1000-foot roll)	20 each	QED bladder pump w/QED control box	160 day
Combination lock or padlock	11 each	Quire fee – Phase I only	200 each
Compressed air tank and regulator	50 day	Resistivity field meter & pins	50 day
Concrete coring machine (≤6-inch-dia)	150 day	Slip / threaded cap, 2-inch or 4-inch diameter, PVC Schedule 40	15 each
Consumables (gloves, rope, soap, tape, etc.)	35 day	Slope inclinometer	200 day
Core sample boxes	11 each	Soil sampling T-handle (Encore)	10 day
Crack monitor	25 each	Soil sampling tripod	35 day
Cutoff saws, reciprocating, electric (Sawzall®)	75 day	Stainless steel bailer	40 day
Disposable bailers	12 each	Submersible pump, 10 gpm, high powered Grundfos 2-inch with controller	160 day
Disposable bladders	10 each	Submersible pump/transfer pump, 10-25 gpm	50 day
Dissolved oxygen meter	45 day	Support service truck usage (well installation, etc.)	200 day
DOT 55-gallon containment drum with lid	65 drum	Survey/fence stakes	8 each
Double-ring infiltrometer	125 day	Tedlar® bags	18 each
Dual-stage interface probe	80 day	Traffic cones (≤25)/barricades (single lane)	50 day
Dynamic Cone Penetrometer	400 day	Turbidity meter	70 day
Generator, portable gasoline fueled, 3,500 watts	90 day	Tyvek® suit (each)	18 each
Global Positioning System/Laser Range Finder	80 day	Vapor sampling box	55 day
Hand auger set	90 day	Vehicle usage (carrying equipment)	14 hour
HDPE safety fence (≤100 feet)	40 roll	VelociCalc	35 day
Horiba U-51 water quality meter	135 day	Visqueen (20 x 100 feet)	100 roll
Light tower (towable vertical mast)	150 day	Water level indicator (electronic well sounder) <300 feet deep well	60 day
Magnehelic gauge	15 day	ZIPLEVEL®	15 day
Manometer	25 day		

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



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**TERMS & CONDITIONS**

- **Expiration:** This fee schedule is effective through December 31, 2020 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 are based upon California prevailing wage laws and wage determinations. Unless specifically indicated in our proposal, costs for apprentice are not included. If we are required to have an apprentice on your project, you will be notified and additional fees will be charged.
- **Overtime:** Standard overtime rate is per California Labor Law and is billed at 1.5 or 2 times their hourly billing rate. Overtime rate for non-exempt field personnel working on a Leighton observed holiday is billed at 2 times their hourly billing rate. Overtime rate for Prevailing wage work is per the California Department of Industrial Relations (DIR) determination and is multiplied at 1.5 to 2 times their hourly billing rate.
- **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