

**CITY OF COSTA MESA
PROFESSIONAL SERVICES AGREEMENT
WITH
SMITH EMERY LABORATORIES, INC.**

THIS PROFESSIONAL SERVICES AGREEMENT ("Agreement") is made and entered into this 1st day of November, 2019 ("Effective Date"), by and between the CITY OF COSTA MESA, a municipal corporation ("City"), and SMITH EMERY LABORATORIES, INC., a California corporation ("Consultant").

WITNESSETH:

A. WHEREAS, City proposes to utilize the services of Consultant as an independent contractor to provide materials testing services on an as-needed basis, as more fully described herein; and

B. WHEREAS, Consultant represents that it has that degree of specialized expertise contemplated within California Government Code section 37103, and holds all necessary licenses to practice and perform the services herein contemplated; and

C. WHEREAS, City and Consultant desire to contract for the specific services described in Exhibit "A" and desire to set forth their rights, duties and liabilities in connection with the services to be performed; and

D. WHEREAS, no official or employee of City has a financial interest, within the provisions of sections 1090-1092 of the California Government Code, in the subject matter of this Agreement.

NOW, THEREFORE, for and in consideration of the mutual covenants and conditions contained herein, the parties hereby agree as follows:

1.0. SERVICES PROVIDED BY CONSULTANT

1.1. Scope of Services. Consultant shall provide the professional services described in the City's Request for Proposal ("RFP"), attached hereto as Exhibit "A," and Consultant's Proposal, attached hereto as Exhibit "B," both incorporated herein by this reference.

1.2. Professional Practices. All professional services to be provided by Consultant pursuant to this Agreement shall be provided by personnel experienced in their respective fields and in a manner consistent with the standards of care, diligence and skill ordinarily exercised by professional consultants in similar fields and circumstances in accordance with sound professional practices. Consultant also warrants that it is familiar with all laws that may affect its performance of this Agreement and shall advise City of any changes in any laws that may affect Consultant's performance of this Agreement.

1.3. Performance to Satisfaction of City. Consultant agrees to perform all the work to the complete satisfaction of the City and within the hereinafter specified. Evaluations of the work will be done by the City Manager or his or her designee. If the quality of work is not satisfactory, City in its discretion has the right to:

- (a) Meet with Consultant to review the quality of the work and resolve the matters of concern;
- (b) Require Consultant to repeat the work at no additional fee until it is satisfactory; and/or
- (c) Terminate the Agreement as hereinafter set forth.

1.4. Warranty. Consultant warrants that it shall perform the services required by this Agreement in compliance with all applicable Federal and California employment laws, including, but not limited to, those laws related to minimum hours and wages; occupational health and safety; fair employment and employment practices; workers' compensation insurance and safety in employment; and all other Federal, State and local laws and ordinances applicable to the services required under this Agreement. Consultant shall indemnify and hold harmless City from and against all claims, demands, payments, suits, actions, proceedings, and judgments of every nature and description including attorneys' fees and costs, presented, brought, or recovered against City for, or on account of any liability under any of the above-mentioned laws, which may be incurred by reason of Consultant's performance under this Agreement.

1.5. Prevailing Wages. To the extent applicable, Consultant shall comply in all respects with California Labor Code sections 1770 et seq., including but not limited to the payment of prevailing wages and keeping all records required by Labor Code section 1776. Consultant shall submit to City each week a statement with respect to the wages of each of its employees during the preceding weekly payroll period.

1.6. Non-Discrimination. In performing this Agreement, Consultant shall not engage in, nor permit its agents to engage in, discrimination in employment of persons because of their race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, age, sexual orientation, or military or veteran status, except as permitted pursuant to section 12940 of the Government Code.

1.7. Non-Exclusive Agreement. Consultant acknowledges that City may enter into agreements with other consultants for services similar to the services that are subject to this Agreement or may have its own employees perform services similar to those services contemplated by this Agreement.

1.8. Delegation and Assignment. This is a personal service contract, and the duties set forth herein shall not be delegated or assigned to any person or entity without the prior written consent of City. Consultant may engage a subcontractor(s) as permitted by law and may employ other personnel to perform services contemplated by this Agreement at Consultant's sole cost and expense.

1.9. Confidentiality. Employees of Consultant in the course of their duties may have access to financial, accounting, statistical, and personnel data of private individuals and employees of City. Consultant covenants that all data, documents, discussion, or other information developed or received by Consultant or provided for performance of this Agreement are deemed confidential and shall not be disclosed by Consultant without written authorization by City. City shall grant such authorization if disclosure is required by law. All City data shall be returned to City upon the termination of this Agreement. Consultant's covenant under this Section shall survive the termination of this Agreement.

2.0. COMPENSATION AND BILLING

2.1. Compensation. Consultant shall be paid in accordance with the fee schedule set forth in Exhibit B. Consultant's total compensation shall not exceed Ten Thousand Dollars (\$10,000.00).

2.2. Additional Services. Consultant shall not receive compensation for any services provided outside the scope of services specified in the Consultant's Proposal unless the City Manager or designee, prior to Consultant performing the additional services, approves such additional services in writing. It is specifically understood that oral requests and/or approvals of such additional services or additional compensation shall be barred and are unenforceable.

2.3. Method of Billing. Consultant may submit invoices to the City for approval on a progress basis, but no more often than two times a month. Said invoice shall be based on the total of all Consultant's services which have been completed to City's sole satisfaction. City shall pay Consultant's invoice within forty-five (45) days from the date City receives said invoice. Each invoice shall describe in detail, the services performed, the date of performance, and the associated time for completion. Any additional services approved and performed pursuant to this Agreement shall be designated as "Additional Services" and shall identify the number of the authorized change order, where applicable, on all invoices.

2.4. Records and Audits. Records of Consultant's services relating to this Agreement shall be maintained in accordance with generally recognized accounting principles and shall be made available to City or its Project Manager for inspection and/or audit at mutually convenient times from the Effective Date until three (3) years after termination of this Agreement.

3.0. TIME OF PERFORMANCE

3.1. Commencement and Completion of Work. Unless otherwise agreed to in writing by the parties, the professional services to be performed pursuant to this Agreement shall commence within five (5) days from the Effective Date of this Agreement. Failure to commence work in a timely manner and/or diligently pursue work to completion may be grounds for termination of this Agreement.

3.2. Excusable Delays. Neither party shall be responsible for delays or lack of performance resulting from acts beyond the reasonable control of the party or parties. Such acts shall include, but not be limited to, acts of God, fire, strikes, material shortages, compliance with laws or regulations, riots, acts of war, or any other conditions beyond the reasonable control of a party.

4.0. TERM AND TERMINATION

4.1. Term. This Agreement shall commence on the Effective Date and continue for a period of six (6) months, ending on April 30, 2020, unless previously terminated as provided herein or as otherwise agreed to in writing by the parties.

4.2. Notice of Termination. The City reserves and has the right and privilege of canceling, suspending or abandoning the execution of all or any part of the work contemplated by this Agreement, with or without cause, at any time, by providing written notice to Consultant. The termination of this Agreement shall be deemed effective upon receipt of the notice of termination. In the event of such termination, Consultant shall immediately stop rendering

services under this Agreement unless directed otherwise by the City.

4.3. Compensation. In the event of termination, City shall pay Consultant for reasonable costs incurred and professional services satisfactorily performed up to and including the date of City's written notice of termination. Compensation for work in progress shall be prorated based on the percentage of work completed as of the effective date of termination in accordance with the fees set forth herein. In ascertaining the professional services actually rendered hereunder up to the effective date of termination of this Agreement, consideration shall be given to both completed work and work in progress, to complete and incomplete drawings, and to other documents pertaining to the services contemplated herein whether delivered to the City or in the possession of the Consultant.

4.4. Documents. In the event of termination of this Agreement, all documents prepared by Consultant in its performance of this Agreement including, but not limited to, finished or unfinished design, development and construction documents, data studies, drawings, maps and reports, shall be delivered to the City within ten (10) days of delivery of termination notice to Consultant, at no cost to City. Any use of uncompleted documents without specific written authorization from Consultant shall be at City's sole risk and without liability or legal expense to Consultant.

5.0. INSURANCE

5.1. Minimum Scope and Limits of Insurance. Consultant shall obtain, maintain, and keep in full force and effect during the life of this Agreement all of the following minimum scope of insurance coverages with an insurance company admitted to do business in California, rated "A," Class X, or better in the most recent Best's Key Insurance Rating Guide, and approved by City:

- (a) Commercial general liability, including premises-operations, products/completed operations, broad form property damage, blanket contractual liability, independent contractors, personal injury or bodily injury with a policy limit of not less than One Million Dollars (\$1,000,000.00), combined single limits, per occurrence. If such insurance contains a general aggregate limit, it shall apply separately to this Agreement or shall be twice the required occurrence limit.
- (b) Business automobile liability for owned vehicles, hired, and non-owned vehicles, with a policy limit of not less than One Million Dollars (\$1,000,000.00), combined single limits, per occurrence for bodily injury and property damage.
- (c) Workers' compensation insurance as required by the State of California. Consultant agrees to waive, and to obtain endorsements from its workers' compensation insurer waiving subrogation rights under its workers' compensation insurance policy against the City, its officers, agents, employees, and volunteers arising from work performed by Consultant for the City and to require each of its subcontractors, if any, to do likewise under their workers' compensation insurance policies.
- (d) Professional errors and omissions ("E&O") liability insurance with policy limits of not less than One Million Dollars (\$1,000,000.00), combined single

limits, per occurrence and aggregate. Architects' and engineers' coverage shall be endorsed to include contractual liability. If the policy is written as a "claims made" policy, the retro date shall be prior to the start of the contract work. Consultant shall obtain and maintain, said E&O liability insurance during the life of this Agreement and for three years after completion of the work hereunder.

5.2. Endorsements. The commercial general liability insurance policy and business automobile liability policy shall contain or be endorsed to contain the following provisions:

- (a) Additional insureds: "The City of Costa Mesa and its elected and appointed boards, officers, officials, agents, employees, and volunteers are additional insureds with respect to: liability arising out of activities performed by or on behalf of the Consultant pursuant to its contract with the City; products and completed operations of the Consultant; premises owned, occupied or used by the Consultant; automobiles owned, leased, hired, or borrowed by the Consultant."
- (b) Notice: "Said policy shall not terminate, be suspended, or voided, nor shall it be cancelled, nor the coverage or limits reduced, until thirty (30) days after written notice is given to City."
- (c) Other insurance: "The Consultant's insurance coverage shall be primary insurance as respects the City of Costa Mesa, its officers, officials, agents, employees, and volunteers. Any other insurance maintained by the City of Costa Mesa shall be excess and not contributing with the insurance provided by this policy."
- (d) Any failure to comply with the reporting provisions of the policies shall not affect coverage provided to the City of Costa Mesa, its officers, officials, agents, employees, and volunteers.
- (e) The Consultant's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

5.3. Deductible or Self Insured Retention. If any of such policies provide for a deductible or self-insured retention to provide such coverage, the amount of such deductible or self-insured retention shall be approved in advance by City. No policy of insurance issued as to which the City is an additional insured shall contain a provision which requires that no insured except the named insured can satisfy any such deductible or self-insured retention.

5.4. Certificates of Insurance. Consultant shall provide to City certificates of insurance showing the insurance coverages and required endorsements described above, in a form and content approved by City, prior to performing any services under this Agreement.

5.5. Non-Limiting. Nothing in this Section shall be construed as limiting in any way, the indemnification provision contained in this Agreement, or the extent to which Consultant may be held responsible for payments of damages to persons or property.

6.0. GENERAL PROVISIONS

6.1. Entire Agreement. This Agreement constitutes the entire agreement between the parties with respect to any matter referenced herein and supersedes any and all other prior writings and oral negotiations. This Agreement may be modified only in writing, and signed by the parties in interest at the time of such modification. The terms of this Agreement shall prevail over any inconsistent provision in any other contract document appurtenant hereto, including exhibits to this Agreement.

6.2. Representatives. The City Manager or his or her designee shall be the representative of City for purposes of this Agreement and may issue all consents, approvals, directives and agreements on behalf of the City, called for by this Agreement, except as otherwise expressly provided in this Agreement.

Consultant shall designate a representative for purposes of this Agreement who shall be authorized to issue all consents, approvals, directives and agreements on behalf of Consultant called for by this Agreement, except as otherwise expressly provided in this Agreement.

6.3. Project Managers. City shall designate a Project Manager to work directly with Consultant in the performance of this Agreement.

Consultant shall designate a Project Manager who shall represent it and be its agent in all consultations with City during the term of this Agreement. Consultant or its Project Manager shall attend and assist in all coordination meetings called by City.

6.4. Notices. Any notices, documents, correspondence or other communications concerning this Agreement or the work hereunder may be provided by personal delivery or mail and shall be addressed as set forth below. Such communication shall be deemed served or delivered: (a) at the time of delivery if such communication is sent by personal delivery, and (b) 48 hours after deposit in the U.S. Mail as reflected by the official U.S. postmark if such communication is sent through regular United States mail.

IF TO CONSULTANT:

Smith Emery Laboratories, Inc.
1197 Tustin Ave.
Anaheim, CA 92807
Tel: (714) 238-6133
Attn: Robert Greeley

IF TO CITY:

City of Costa Mesa
77 Fair Drive
Costa Mesa, CA 92626
Tel: (714) 754-5357
Attn: Naz Mokarram

Courtesy copy to:

City of Costa Mesa
77 Fair Drive
Costa Mesa, CA 92626
Attn: Finance Dept. | Purchasing

6.5. Drug-Free Workplace Policy. Consultant shall provide a drug-free workplace by complying with all provisions set forth in City's Council Policy 100-5, attached hereto as Exhibit

"C" and incorporated herein by reference. Consultant's failure to conform to the requirements set forth in Council Policy 100-5 shall constitute a material breach of this Agreement and shall be cause for immediate termination of this Agreement by City.

6.6. Attorneys' Fees. In the event that litigation is brought by any party in connection with this Agreement, the prevailing party shall be entitled to recover from the opposing party all costs and expenses, including reasonable attorneys' fees, incurred by the prevailing party in the exercise of any of its rights or remedies hereunder or the enforcement of any of the terms, conditions, or provisions hereof.

6.7. Governing Law. This Agreement shall be governed by and construed under the laws of the State of California without giving effect to that body of laws pertaining to conflict of laws. In the event of any legal action to enforce or interpret this Agreement, the parties hereto agree that the sole and exclusive venue shall be a court of competent jurisdiction located in Orange County, California.

6.8. Assignment. Consultant shall not voluntarily or by operation of law assign, transfer, sublet or encumber all or any part of Consultant's interest in this Agreement without City's prior written consent. Any attempted assignment, transfer, subletting or encumbrance shall be void and shall constitute a breach of this Agreement and cause for termination of this Agreement. Regardless of City's consent, no subletting or assignment shall release Consultant of Consultant's obligation to perform all other obligations to be performed by Consultant hereunder for the term of this Agreement.

6.9. Indemnification and Hold Harmless. Consultant agrees to defend, indemnify, hold free and harmless the City, its elected officials, officers, agents and employees, at Consultant's sole expense, from and against any and all claims, actions, suits or other legal proceedings brought against the City, its elected officials, officers, agents and employees arising out of the performance of the Consultant, its employees, and/or authorized subcontractors, of the work undertaken pursuant to this Agreement. The defense obligation provided for hereunder shall apply without any advance showing of negligence or wrongdoing by the Consultant, its employees, and/or authorized subcontractors, but shall be required whenever any claim, action, complaint, or suit asserts as its basis the negligence, errors, omissions or misconduct of the Consultant, its employees, and/or authorized subcontractors, and/or whenever any claim, action, complaint or suit asserts liability against the City, its elected officials, officers, agents and employees based upon the work performed by the Consultant, its employees, and/or authorized subcontractors under this Agreement, whether or not the Consultant, its employees, and/or authorized subcontractors are specifically named or otherwise asserted to be liable. Notwithstanding the foregoing, the Consultant shall not be liable for the defense or indemnification of the City for claims, actions, complaints or suits arising out of the sole active negligence or willful misconduct of the City. This provision shall supersede and replace all other indemnity provisions contained either in the City's specifications or Consultant's Proposal, which shall be of no force and effect.

6.10. Independent Contractor. Consultant is and shall be acting at all times as an independent contractor and not as an employee of City. Consultant shall have no power to incur any debt, obligation, or liability on behalf of City or otherwise act on behalf of City as an agent. Neither City nor any of its agents shall have control over the conduct of Consultant or any of Consultant's employees, except as set forth in this Agreement. Consultant shall not, at any time, or in any manner, represent that it or any of its agents or employees are in any manner agents or employees of City. Consultant shall secure, at its sole expense, and be responsible for any and

all payment of Income Tax, Social Security, State Disability Insurance Compensation, Unemployment Compensation, and other payroll deductions for Consultant and its officers, agents, and employees, and all business licenses, if any are required, in connection with the services to be performed hereunder. Consultant shall indemnify and hold City harmless from any and all taxes, assessments, penalties, and interest asserted against City by reason of the independent contractor relationship created by this Agreement. Consultant further agrees to indemnify and hold City harmless from any failure of Consultant to comply with the applicable worker's compensation laws. City shall have the right to offset against the amount of any fees due to Consultant under this Agreement any amount due to City from Consultant as a result of Consultant's failure to promptly pay to City any reimbursement or indemnification arising under this paragraph.

6.11. PERS Eligibility Indemnification. In the event that Consultant or any employee, agent, or subcontractor of Consultant providing services under this Agreement claims or is determined by a court of competent jurisdiction or the California Public Employees Retirement System (PERS) to be eligible for enrollment in PERS as an employee of the City, Consultant shall indemnify, defend, and hold harmless City for the payment of any employee and/or employer contributions for PERS benefits on behalf of Consultant or its employees, agents, or subcontractors, as well as for the payment of any penalties and interest on such contributions, which would otherwise be the responsibility of City.

Notwithstanding any other agency, state or federal policy, rule, regulation, law or ordinance to the contrary, Consultant and any of its employees, agents, and subcontractors providing service under this Agreement shall not qualify for or become entitled to, and hereby agree to waive any claims to, any compensation, benefit, or any incident of employment by City, including but not limited to eligibility to enroll in PERS as an employee of City and entitlement to any contribution to be paid by City for employer contribution and/or employee contributions for PERS benefits.

6.12. Cooperation. In the event any claim or action is brought against City relating to Consultant's performance or services rendered under this Agreement, Consultant shall render any reasonable assistance and cooperation which City might require.

6.13. Ownership of Documents. All findings, reports, documents, information and data including, but not limited to, computer tapes or discs, files and tapes furnished or prepared by Consultant or any of its subcontractors in the course of performance of this Agreement, shall be and remain the sole property of City. Consultant agrees that any such documents or information shall not be made available to any individual or organization without the prior consent of City. Any use of such documents for other projects not contemplated by this Agreement, and any use of incomplete documents, shall be at the sole risk of City and without liability or legal exposure to Consultant. City shall indemnify and hold harmless Consultant from all claims, damages, losses, and expenses, including attorneys' fees, arising out of or resulting from City's use of such documents for other projects not contemplated by this Agreement or use of incomplete documents furnished by Consultant. Consultant shall deliver to City any findings, reports, documents, information, data, in any form, including but not limited to, computer tapes, discs, files audio tapes or any other related items as requested by City or its authorized representative, at no additional cost to the City.

6.14. Public Records Act Disclosure. Consultant has been advised and is aware that this Agreement and all reports, documents, information and data, including, but not limited to, computer tapes, discs or files furnished or prepared by Consultant, or any of its subcontractors,

pursuant to this Agreement and provided to City may be subject to public disclosure as required by the California Public Records Act (California Government Code section 6250 *et seq.*). Exceptions to public disclosure may be those documents or information that qualify as trade secrets, as that term is defined in the California Government Code section 6254.7, and of which Consultant informs City of such trade secret. The City will endeavor to maintain as confidential all information obtained by it that is designated as a trade secret. The City shall not, in any way, be liable or responsible for the disclosure of any trade secret including, without limitation, those records so marked if disclosure is deemed to be required by law or by order of the Court.

6.15. Conflict of Interest. Consultant and its officers, employees, associates and subconsultants, if any, will comply with all conflict of interest statutes of the State of California applicable to Consultant's services under this agreement, including, but not limited to, the Political Reform Act (Government Code sections 81000, *et seq.*) and Government Code section 1090. During the term of this Agreement, Consultant and its officers, employees, associates and subconsultants shall not, without the prior written approval of the City Representative, perform work for another person or entity for whom Consultant is not currently performing work that would require Consultant or one of its officers, employees, associates or subconsultants to abstain from a decision under this Agreement pursuant to a conflict of interest statute.

6.16. Responsibility for Errors. Consultant shall be responsible for its work and results under this Agreement. Consultant, when requested, shall furnish clarification and/or explanation as may be required by the City's representative, regarding any services rendered under this Agreement at no additional cost to City. In the event that an error or omission attributable to Consultant occurs, then Consultant shall, at no cost to City, provide all necessary design drawings, estimates and other Consultant professional services necessary to rectify and correct the matter to the sole satisfaction of City and to participate in any meeting required with regard to the correction.

6.17. Prohibited Employment. Consultant will not employ any regular employee of City while this Agreement is in effect.

6.18. Order of Precedence. In the event of an inconsistency in this Agreement and any of the attached Exhibits, the terms set forth in this Agreement shall prevail. If, and to the extent this Agreement incorporates by reference any provision of any document, such provision shall be deemed a part of this Agreement. Nevertheless, if there is any conflict among the terms and conditions of this Agreement and those of any such provision or provisions so incorporated by reference, this Agreement shall govern over the document referenced.

6.19. Costs. Each party shall bear its own costs and fees incurred in the preparation and negotiation of this Agreement and in the performance of its obligations hereunder except as expressly provided herein.

6.20. Binding Effect. This Agreement binds and benefits the parties and their respective permitted successors and assigns.

6.21. No Third Party Beneficiary Rights. This Agreement is entered into for the sole benefit of City and Consultant and no other parties are intended to be direct or incidental beneficiaries of this Agreement and no third party shall have any right in, under or to this Agreement.

6.22. Headings. Paragraphs and subparagraph headings contained in this Agreement

are included solely for convenience and are not intended to modify, explain or to be a full or accurate description of the content thereof and shall not in any way affect the meaning or interpretation of this Agreement.

6.23. Construction. The parties have participated jointly in the negotiation and drafting of this Agreement. In the event an ambiguity or question of intent or interpretation arises with respect to this Agreement, this Agreement shall be construed as if drafted jointly by the parties and in accordance with its fair meaning. There shall be no presumption or burden of proof favoring or disfavoring any party by virtue of the authorship of any of the provisions of this Agreement.

6.24. Amendments. Only a writing executed by the parties hereto or their respective successors and assigns may amend this Agreement.

6.25. Waiver. The delay or failure of either party at any time to require performance or compliance by the other of any of its obligations or agreements shall in no way be deemed a waiver of those rights to require such performance or compliance. No waiver of any provision of this Agreement shall be effective unless in writing and signed by a duly authorized representative of the party against whom enforcement of a waiver is sought. The waiver of any right or remedy in respect to any occurrence or event shall not be deemed a waiver of any right or remedy in respect to any other occurrence or event, nor shall any waiver constitute a continuing waiver.

6.26. Severability. If any provision of this Agreement is determined by a court of competent jurisdiction to be unenforceable in any circumstance, such determination shall not affect the validity or enforceability of the remaining terms and provisions hereof or of the offending provision in any other circumstance. Notwithstanding the foregoing, if the value of this Agreement, based upon the substantial benefit of the bargain for any party, is materially impaired, which determination made by the presiding court or arbitrator of competent jurisdiction shall be binding, then both parties agree to substitute such provision(s) through good faith negotiations.

6.27. Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original. All counterparts shall be construed together and shall constitute one agreement.

6.28. Corporate Authority. The persons executing this Agreement on behalf of the parties hereto warrant that they are duly authorized to execute this Agreement on behalf of said parties and that by doing so the parties hereto are formally bound to the provisions of this Agreement.

[Signatures appear on following page.]

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by and through their respective authorized officers, as of the date first above written.

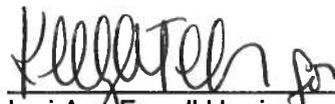
CONSULTANT


Signature James E. Partridge
Civil Engineer
[Name and Title] President

Date: November 26, 2019

95-4745125
Social Security or Taxpayer ID Number

CITY OF COSTA MESA


Lori Ann Farrell Harrison
City Manager

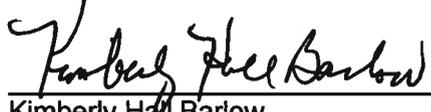
Date: 12/18/19

ATTEST:

Brenda Green 1/13/2020
Brenda Green
City Clerk



APPROVED AS TO FORM:


Kimberly Hall Barlow
City Attorney

Date: 1/9/20

APPROVED AS TO INSURANCE:


Ruth Wang
Risk Management

Date: 12/19/19

APPROVED AS TO CONTENT:


Naz Mokarram
Project Manager

Date: 12/27/19

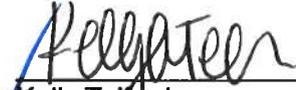
DEPARTMENTAL APPROVAL:



Raja Sethuraman
Public Services Director

Date: 12/27/19

APPROVED AS TO PURCHASING:



Kelly Telford
Finance Director

Date: 12/18/19

EXHIBIT A
REQUEST FOR PROPOSAL



CITY OF COSTA MESA

P.O. BOX 1200 • 77 FAIR DRIVE • CALIFORNIA 92628-1200

FROM THE DEPARTMENT OF PUBLIC SERVICES/ENGINEERING DIVISION

August 14, 2019

SUBJECT: REQUEST FOR PROPOSAL (RFP) FOR ON-CALL MATERIALS TESTING

Dear Consultant:

The City of Costa Mesa is interested in receiving proposals for the services of a qualified materials testing firm who can provide on-call inspection, testing, analysis, and structural assessment, for various federally and locally funded construction projects performed by the Public Services Department.

I. SCOPE OF WORK

Tasks that are to be provided under this on-call materials testing contract may include but are not limited to the following:

- Construction Inspection
- Geotechnical Boring and Analysis
- Field testing and Analysis
- Material Analysis
- Concrete: such as Concrete coring, concrete compressive cylinders, slump and air entrainment tests. Concrete compliance testing.
- ASPHALT: such as Asphalt coring, moisture and density
- AGGREGATE: such as borings, soil classification, gradation
- ASBESTOS: such as inspecting, sampling, and testing for the presence of asbestos.
- Acceptance Sampling
- Slurry Seal Materials Testing
- Specialty Testing.
- MASONRY: such as masonry strength testing, pre-cast, pre-stressed inspection.
- Deputy Inspection Services
- Materials testing that meets the stringent testing standards set forth in AASHTO, ASTM, and CALTRANS.

B. Minimum Consultant Qualifications:

The key project staff, furnished by the consultant and sub-consultants, must have at least five years' prior experience on similar types of projects. All consultants responding to this Request for Proposals (RFP) will be evaluated on the basis of their expertise, prior experience on similar projects, demonstrated competence, ability to meet the project schedule, adequate staffing, understanding of the project, and responsiveness to the needs and concerns of the City of Costa Mesa.

II. CONTENT OF PROPOSAL

In order to maintain uniformity with all proposals furnished by consultants, the proposals shall include the following:

- A. A statement of project understanding containing any suggestions to improve or expedite the project or special concerns of which the City should be made aware. The project approach shall contain clarifications or additional scope of work that you feel are necessary for the successful completion of the project.
- B. A list of similar projects that your firm has completed within the last five years. Information should include: project description, agency or client name, along with the person to contact and the telephone number(s), year completed, and project cost.
- C. Fee proposal/hourly Rates.

Please submit one copy of the project proposal and one copy of the fee schedule/hourly rates by August 26, 2019, 4:00 P.M. to:

**Robert Staples, Contract Administrator
City of Costa Mesa
Public Services Department
robert.staples@costamesaca.gov**

III. PROFESSIONAL SERVICES AGREEMENT

- A. A sample of the required Professional Services Agreement is enclosed for your information (Exhibit A). The RFP and the consultant's proposal will be attached to and become part of the executed agreement as exhibits.
- B. No reduction of professional services, as stated in both the City's RFP and the consultant's submitted proposal, will be allowed.

IV. INSURANCE REQUIREMENTS

A certificate of insurance is enclosed for your reference (Exhibit B). Please refer to the sample agreement for the necessary amounts of general liability insurance, automotive, worker's compensation, and professional liability insurance. The appropriate endorsements are also shown within the sample contract agreement.

V. SCOPE OF CONSULTANT SERVICES

A. Project Analysis and Review:

Analyze the project, perform field review and investigations, evaluate existing conditions, research existing plans and records, and meet with City staff to define the detailed project scope and objectives. Meet with City staff during the progress of the project, for appropriate guidance and coordination.

VI. CITY RESPONSIBILITIES

The City of Costa Mesa will be responsible for providing all available maps, plans, reports, and records on file.

VII. ASSESSMENT OF WORK EFFORT PRIOR TO SUBMITTING REQUEST FOR PROPOSALS

Each consultant must inform themselves fully of the conditions relating to the project and the employment of labor thereon. Failure to do so will not relieve a successful consultant engineer of the obligations to carry out the provisions of the contract.

VIII. RIGHT TO REJECT ALL PROPOSALS

- A. The City of Costa Mesa reserves the right to reject any or all proposals submitted, and/or to delete any portion(s) of the submitted proposal. No representation is made hereby that any contract will be awarded pursuant to this RFP or otherwise.
- B. All costs incurred in the preparation of the proposal, the submission of additional information, and/or any aspect of a proposal, prior to award of a written contract will be borne by the respondent. The City will provide only the staff assistance and documentation specifically referred to herein and will not be responsible for any other cost or obligation of any kind, which may be incurred by the respondent. All proposals and documents submitted to the City of Costa Mesa become the City's property for its own use as deemed necessary.

IX. SUMMARY

Your participation is greatly appreciated by the City. It is the intent of this RFP to establish the minimum consultant services required by the City. To assist in your preparation, this RFP was categorized into sections stating the specific requirements of the City. It is the intent of the City to select a consultant and award a contract. All insurance documents must be submitted and approved prior to the award of the contract.

Attachments: Exhibit A – Professional Services Agreement
 Exhibit B – Certificate of Insurance

EXHIBIT B
CONSULTANT'S PROPOSAL

**Statement of Qualifications to
City of Costa Mesa
for
On-Call Materials Testing**

August 23, 2019

Submitted by:



Submitted To:





Mr. Robert Staples, Contract Administrator
City of Costa Mesa
Public Services Department
Robert.staples@costamesaca.gov

August 23, 2019

RE: RFP - On-Call Construction Materials & Soil Testing Services

Dear Mr. Staples,

Smith-Emery Laboratories, Inc. is pleased to present the City of Costa Mesa with our proposal to provide on-call inspection, testing, analysis, and structural assessment for construction projects performed by the Public Works Department. We are confident that our expertise and unwavering commitment to service makes us the right team for your projects.

- ✓ Smith-Emery has more full-time **multi-licensed inspectors** than any other local firm enabling us to provide services 24 hours per day, 7 days a week with minimum notification.
- ✓ Full-service laboratory in **Anaheim, CA** less than 10 miles radius to the public works department assuring prompt response time.
- ✓ We are the **only combination ISO 17020, ISO 17025** Material Testing and Inspection Laboratory in California as well as being accredited by **Caltrans, AAHTO, ASTM and the City of Los Angeles.**
- ✓ We have a successful track record of providing similar services to the City of Costa Mesa and numerous municipalities across the State.

Our staffing and project approach will be flexible, with an emphasis on responsiveness. We have the staff with the expertise for any project in the City of Costa Mesa. Smith-Emery's core business is materials testing and inspection, enabling us to focus on your projects, as well as having ample resources to provide you with responsive services. Locally, we dispatch about 350+ technicians and inspectors every day. Our familiarity with the local jurisdiction, site conditions and technical knowledge, along with a strong team of experienced professional engineers, technicians and geologists will ensure the success of your project.

Smith-Emery has examined the entire RFQ and can perform and meet all requirements listed in the Scope of Work. We will not be utilizing sub-consultants on this project and have not received an addendum to date. Smith-Emery will comply with all applicable federal and state laws, Equal Opportunity laws and regulations. This Statement of Qualifications shall remain valid for a period of 90 days from the date of submittal. All information submitted with the statement is true and correct.

Please do not hesitate to contact me with any questions or if I can provide you with additional information. Thank you in advance for the opportunity of being considered for this contract.

Best Regards,

Robert Greeley *Robert Greeley*
Senior Project Manager
714.238.6133
rob@smithemerylabs.com

Executive Summary/Statement of Qualifications

The City of Costa Mesa intends to select one or more qualified consultants to provide on-call Materials Testing. The anticipated term of the contract will be for a three years period with an option for three additional one-year periods. All work will be assigned on an as needed basis.

Firm Strength and Stability

Founded in 1904, Smith-Emery Company is the largest materials testing and inspection company on the West Coast and remains the only commercial independent testing laboratory firm to be owned and managed by a Registered Civil Engineer. Smith-Emery operates under third generation company ownership. This creates stability and a long-term commitment to the company's future. The firm is in a solid financial position and have not had any bankruptcies or pending litigation. This is an important consideration when selecting a testing and inspection firm – we will be there for you for the duration of the project. With a staff of 350+ licensed engineers, inspectors, technicians and administrative support, Smith-Emery has developed a reputation of delivering unmatched services that continually exceed client expectations.

We Will Meet the Schedule

We know how to structure our part of the work for concurrent activities, as well making sure there are enough resources on site and in the laboratory to get the work done. Smith-Emery's philosophy is to "keep the lights on" – 24 hours per day, seven days a week if the schedule demands it – we will always say yes to working to the schedule.

Engineering Services

Preliminary Soils / Geology Investigation
Site Evaluation
Hydrogeological Site Characterization
Foundation Recommendations
Geologic Mapping
Remedial Grading Recommendations
Liquefaction Studies / Seismic Design
Settlement Analysis
Deep Foundation Design Recommendations
Shoring Design Parameters
Pavement Design



Founded 1904 in San Francisco, CA
Family-owned/operated S-Corporation

Years in Business: 115

James E. Partridge, P.E.
Principal, President

Headquarters:

781 East Washington Blvd.
Los Angeles, CA 90021
Tel: 213.749.3411 Fax: 213.741.8620

Local Laboratory:

1197 North Tustin Ave
Anaheim, CA 92807
714.238.6133

350+ Inspectors
15 Project Managers
8 Project Engineers
2 Geotechnical Engineers
3 Registered Geologists
30 Laboratory Technicians

Smith-Emery San Francisco, San Francisco, CA
Smith-Emery San Francisco, Selma, CA
Smith-Emery Company, Los Angeles, CA
Smith-Emery Laboratories, Anaheim, CA
Smith-Emery Company, Oakesdale, WA
Smith-Emery Laboratories, Calexico, CA
Smith-Emery China, Shanghai, China
Smith-Emery Canada, Montréal, Quebec

Contact:

Robert Greeley, Project Manager
24 Hour Mobile: 714.231.2049

Forensic Investigation
Foundation and Landslide Studies
Earthquake Fault Zone Investigations

Field Inspection and Testing

Mass Grading Inspection and Testing
Backfill Inspection
Footing Inspections
Hot Mix Asphalt Placement Inspection
Pile Driving and Caisson Inspection

Drilled Foundation Inspections
Shoring Inspections
Inspection of Tie-Back Anchors

Batch Plant Inspection
40-Hour OSHA HAZWOPER Personnel

Concrete and Steel Inspections / Non-Destructive Testing

Smith-Emery's facility dispatches over 300 certified inspectors daily to jobsites throughout the state of California. Smith-Emery's structural inspections and materials sampling services include concrete, masonry, structural steel, and soils, and range to related structural materials such as shotcrete, fireproofing, and an extensive list of specialty materials. Our inspectors are certified and have extensive experience to inspect and test all types of construction – including new buildings, building additions, seismic upgrades, historic structures, and civil works – roads, highways, bridges, airport facilities, rail, water and water transmission.

Physical Laboratory

Smith-Emery has its own in-house testing laboratories which allows testing and report preparation to always be performed in an organized and timely manner. All laboratory testing services under this contract will be performed by experienced and qualified personnel in laboratories certified to comply with, AMRL, CCRL, ASTM E-329 (Standard Specification for Agencies Engaged in Construction Inspection, Special Inspection, or Testing Materials Used in Construction). Our laboratories are also certified by AASHTO Accreditation Program (AAP), California Department of Transportation (CALTRANS) and Division of the State Architect. All tests for the project will be performed in local facilities.

Soils and Asphalt Laboratory Capabilities

Smith-Emery has a full-service Caltrans, AASHTO, and DSA (LEA) accredited soils and asphalt laboratory, engineering technicians and professionals to provide comprehensive geotechnical consulting services.

Laboratory Testing

Soils

Sieve Analysis, Fine or Coarse, ASTM C136
Material Finer than #200, ASTM C 177/D1140
Hydrometer Analysis, ASTM D 422
Specific Gravity Soils, ASTM D 854
Atterberg Limits, ASTM D4318
Moisture-Density Rel. of Soils, STM D1557
Consolidation Test, ASTM D 2335
Unconfined Compression Test, ASTM D 2166
Expansion Index, UBC-29-2, ASTM D 4829
Direct Shear Test, ASTM D 3080
Permeability, Constant Head, ASTM D 2434
Permeability, Falling Head, ASTM D 5084

Percent Flat/Elongate CT 119/ASTM 4791

Hot Mix Asphalt

Stability Tests: Hveem, CT 304/366
Maximum Density: Hveem CT 304/308
Gradation of Extracted Sample CT 202
Maximum Theoretical Specific Gravity CT 309
Core Density, CT 308
Oil Content by Ignition

Aggregate

Absorption. Coarse/Fine, ASTM C 127/1280
Specific Gravity. Bulk SSD Coarse/Fine ASTM C 127/128
Cleanness Value, California 227
Sand Equivalent, ASTM 2419
Sodium or Mag. Soundness, ASTM C88
"R" Value, CT 301/ASTM 2844



Resources and Key Personnel

Smith-Emery maintains a large base of professionals 350+ inspectors enabling the firm to respond to City's fluctuating needs on time and on budget. Our staffing and project approach will be flexible, with an emphasis on responsiveness. Mr. Greeley with over 40 years of outstanding experience will be your single point of contact for managing the budget, schedule, scope and QA/QC Operations. Mr. Greeley will work with the City of Costa Mesa project manager to identify staffing needs, review sampling and testing operations. He will ensure that staff maintains all the certifications that adhere to the QA/QC plan, monitor lab testing and field reports along with budgets and provide monthly reports and feedback. We believe a well-defined line of authority and communication is critical to a well-coordinated team. Maintaining strong communications will enable Mr. Greeley to provide the project with the necessary resources when needed in order to accomplish the work. The proposed key personnel will be available to the extent proposed for the duration of the on-call services and no person designated will be replaced without the prior written concurrence of the City of Mesa.

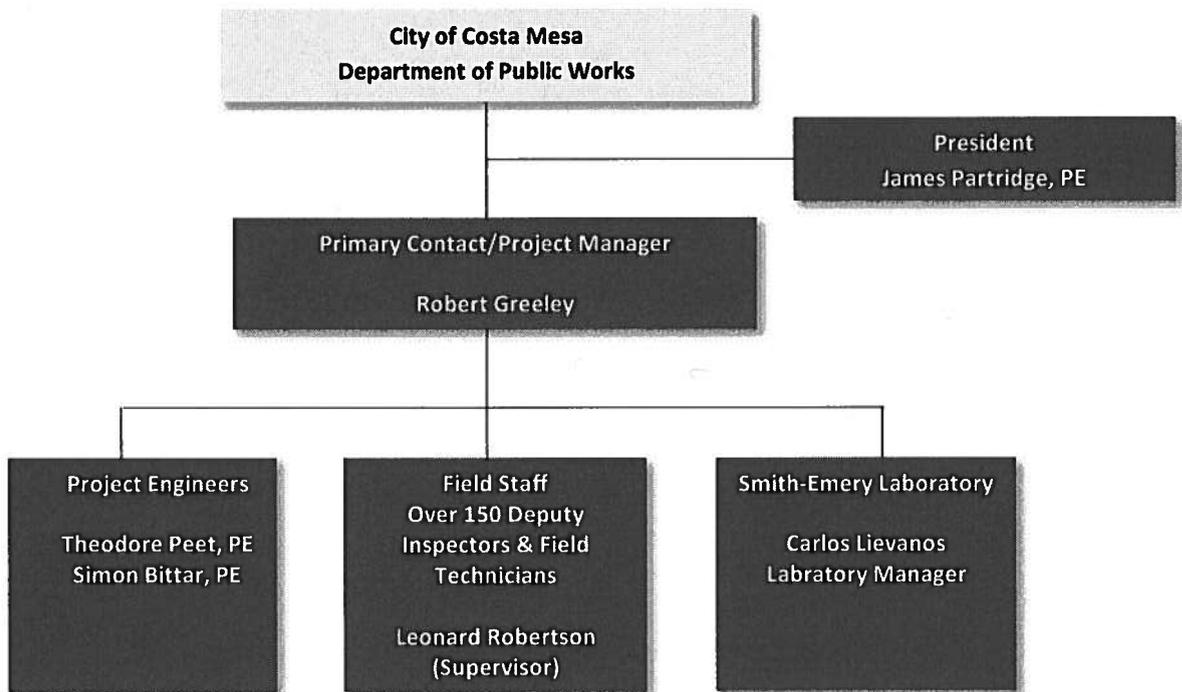
<p>James Partridge, P.E. Principal-In-Charge</p> <p>Mr. Partridge has over 40 years of technical experience including the last 20 years as Owner and President of Smith-Emery. Mr. Partridge is responsible for the direction, overall technical competency and the quality control of four certified Materials Testing, Geotechnical, Environmental, Chemical, Metallurgical and Special Inspection laboratories.</p>	<p>Theodore Peet, P.E. Sr. Project Engineer</p> <p>Mr. Peet is a registered Civil Engineer with over 35 years of industry experience. He will perform analysis of materials test results, review/approval of test reports, perform research and compile reports on material properties, perform/collaborate in material statistical validation and compliance with contract service requirements.</p>	<p>Robert Greeley Primary Contact/Project Manager</p> <p>Mr. Greeley is a valued member of our management team who has been with Smith-Emery since 1978. Robert has extensive experience in managing public works and private sector projects and is familiar with their various requirements. He assumes the role of Project Manager overseeing QA/QC both for field and laboratory testing programs.</p>
<p>Simon Bittar, PE Project Engineer</p> <p>Mr. Bittar has performed hundreds of geotechnical investigations over the past 20 years. Mr. Bittar handles the project management duties of geotechnical investigations as well as overseeing soil technicians, preparing compaction reports, providing geotechnical construction observations and inspections during the grading operations and construction phase of various projects.</p>	<p>Leonard Robertson Field Technician Supervisor</p> <p>Mr. Robertson has been our Field Technician Supervisor since 2015. He is responsible for technician supervision, project plan and specification review, soils testing, asphalt testing, concrete testing and pull/torque testing. He has worked with Smith-Emery since 2006 and is an asset to any project team.</p>	<p>Carlos Lievanos Laboratory Manager</p> <p>Mr. Lievanos is highly experienced with all laboratory testing. He has had extensive training with Caltrans and is responsible for soils and geotechnical labs. He was instrumental in setting up two laboratories for High Speed Rail in record time – from set up to calibration to obtaining all necessary certifications.</p>



Smith-Emery has extensive experience in supporting municipalities, public agencies and private organizations with their material testing, inspections and geotechnical engineering requirements in the State of California. The following is a representative list of our recent on-call work in Southern California but is not inclusive of all of our work.

Client	Project	Type	Completion
City of Downey PCC cylinders for concrete improvements, compaction testing for subgrade and AC	Capital Improvement Project No 18-12: Firestone Blvd Water System Improvement Project Lorena Powell Assistant Civil Engineer I City of Downey 562-904-7110	On-Call Contract for Various Projects	2018-Present
West Basin Municipal Water Testing & Inspection: Soils, Concrete, Rebar, Shotcrete, Anchors, Welding	ECLWRF Visitor Center Renovation Dustin Morton Field Engineer Butier Engineering Inc 714-832-7211	On-Call Contract for Various Projects	2018-Present
City of Irvine Soils, Deputy Inspections, Structural Inspection, and Laboratory of Record	Orange County Great Park-Alton Ave, Yale Ave, Irvine Transportation Center, Jamboree I-5 Ramp, Jefferey Road Rick Torres Sr. Construction Inspector City of Irvine 714-345-5002	On-Call Contract for Various Projects	1998-2017
City of Upland Deputy Inspections, Structural Inspections and Laboratory of Record	16 th Street Pavement Rehabilitation, San Antonio Creek Bridge, 11 th Street Bridge, Water Treatment Facility Enayat Khugyani, PE City of Upland Senior Engineer 909-291-2961	Various On-Call Contracts	2012-Present





6 Scope of Services

- Construction Inspection
- Geotechnical Boring & Analysis
- Field Testing & Analysis
- Concrete
- Asphalt
- Aggregate
- Asbestos
- Slurry Seal Materials Testing
- Specialty Testing
- Masonry
- Deputy Inspection Services
- Materials Testing: AASHTO, ASTM, and CALTRANS

Approach & Workplan

Smith-Emery approaches our work methodically. Basically, we outline our projects in the following manner in order to set out a budget and schedule for the project. All projects are set up to have milestone checks that will make sure the budget is on track and we are adhering to the schedule:

Review Project Assignment with Client.

- Speak with the client to assure full understanding of the work request (Task Order) and to identify potential omissions in the scope of work requested
- Discuss schedule and agree to a delivery date



Develop Work Plan

- Identify activities, personnel, schedule and priorities
- Identify and coordinate with other work on the same project, if any

Review of Archive Data

- Review relevant as-built plans and reports and any other relevant records.

Field Visit

- Assure field personnel have proper equipment and safety gear
- Assure permits are in order
- Assure that the appropriate observations are made in accordance with the project needs
- Obtain samples, log soil conditions
- Prepare preliminary report based on borings.

Laboratory Testing

- Perform lab tests on samples

Analysis, Evaluations, Alternatives and Provide Recommendations

- Perform engineering analyses
- Develop design recommendations
- Identify alternatives including associated advantages, disadvantages, and risks
- Peer Review of Recommendations (Optional)
- Discuss project and proposed recommendations alternatives with at least one experienced colleague

Review Report

- Check for compliance with applicable reporting standard
- Check for consistency with other reports, if any, for the same project
- Check resource estimates for design investigation and construction phase
- Check for readability, clarity, grammar, and spelling.

Support during Design Phase

- Review submitted preliminary plans for geotechnical recommendations
- Advise designers of findings

Support during Construction Phase

- As requested, field observation of foundation work based on design recommendations

Upon arrival at the test location, Smith-Emery personnel will check in with the City's representative and, if requested present credentials, certifications, test procedure (if applicable), and evidence of calibration for test equipment to be used. Our field and laboratory personnel will prepare and maintain daily diary notes that indicate date and time the work begins and ends, and a summary of the services and tasks performed. For field work, The City's representative will sign confirm, by signature; the hours required to perform the work prior to leaving the site. In the event that the City's representative requests services to be performed during hours other than a normal work day the start time will be agreed upon between the City and Smith-Emery.



Operations

Smith-Emery operates its laboratory and inspection operations in to meet or exceed regulations and standards set out in the State of California Uniform Building Code, AASHTO and other applicable jurisdiction. We adhere to the practices and protocols established by the following:

- American Concrete Institute (ACI)
- American Institute of Steel Construction (AISC)
- American National Standards Institute (ANSI)
- American Society for Nondestructive Testing (ASNT)
- American Society for Testing and Materials (ASTM)
- American Welding Society (AWS)

These practices and protocols include, but are not limited to:

- Performing all tests in accordance with the designated test methods, and reporting and explaining any deviations from those test methods, if any, in the test report
- Assuring that reported values accurately reflect measured data
- Limiting work to that for which competence and capacity are available
- Treating test data, records, and reports as proprietary information owned by the Client
- Performing each test according to the latest version of each test method
- Maintaining an independent decisional relationship between our clients, affiliates, or other organizations, so that the laboratory's capacity to render test reports objectively and without bias is not adversely affected.
- Establish the requirement for assuring that work processes are controlled in a manner that is commensurate with their potential impact on the quality of the item or service.

These requirements apply to activities involving sampling, testing, measuring, or observation of processes performed for or by Smith-Emery personnel on project tasks.

Work is planned, authorized, and accomplished using applicable technical standards, instructions, procedures, references, or other appropriate means of detail commensurate with activity, complexity, and risk. The requirements of applicable code standards, including acceptance criteria, shall be specified or referenced in procedures or instructions. The Laboratory Manager and/or Laboratory Engineer may establish quality control points beyond which work shall not proceed without evaluation or approval (process hold points).

Statistical techniques, references standards, duplicate tests, and proficiency sample testing programs may be used to verify process control. Special processes, where the results of the process cannot be verified by subsequent inspection or testing, such as nondestructive examination, are performed by qualified operators using procedures and/or require continuous monitoring and control of processes parameters to ensure that the specified requirements are met.

Applicable conditions, parameters, and requirements for performance and control of project-specific processes will be addressed in applicable procedure documents.

Special work plans, procedures, instruction, and other document prepared for control of processes will be maintained or referenced in project files.



Test Results

Test results are documented on standard laboratory or field forms or on forms specifically prepared for the test to be performed. Test results (data and calculations) are always reviewed for accuracy, completeness, and to assure that test requirements have been satisfied. An individual other than the individual who performed the test conducts this review.

Failing Test Results

When a test result of a product or material indicates noncompliance with the required specification, the results are forwarded immediately to the appropriate laboratory manager. The laboratory manager will then notify the it's representative or other designated representative, including the inspector on the project, by email, text and/or telephone to discuss resolution.

Reference Testing/Proficiency Sample Test Program

The accuracy and quality of Smith-Emery's testing functions are verified, as appropriate, by participation in industry-sponsored or internal test programs. Examples of these programs include tests of NIST reference sample; participation in proficiency sample test programs such as those sponsored by CCRL, AMRL, or state and federal agencies; performance of duplicate tests; or other tests specified by Work and Test Procedures. The results of these tests are compared to the reference standard or appropriate test precision statements and corrective action is taken if necessary.

Reports

Reporting is the heart of our services. Our staff issues daily field reports at the end of each shift. Each report outlines all tests performed and other activities that happened during the shift. Our inspectors document and/or notify the owner/contractor of deviations from project plans and specifications when they are on-site. The inspector will leave a copy of his daily field report on-site for the contractor and/or the City's representative to review. The inspector's daily report will include: a daily log of tests and inspections performed, a list of the non-conforming items (if any), report on the resolution of the non-conforming items, and any changes that were authorized by the project's representatives. All reports and certificates shall be written by the Contractor in accordance with the guidelines established in ANSI/ISO/IEC 17025-2005, General Requirements for the Competence of Testing and Calibration Laboratories.

The results of each test or series of tests performed are reported accurately, clearly, unambiguously, and objectively, in accordance with specified instructions in the required test methods. The results are reported in a certificate, test report or test certificate and include all the information necessary for the interpretation of the test results and all information required by the method used. All of our work is overseen and reviewed by a licensed, professional engineer

Tests that do not meet the required specification are immediately communicated to the proper authority at the time that the test is run. Smith-Emery maintains an internet-based laboratory information management system for field inspection, testing and laboratory testing of construction materials, to manage the collection of inspection and test data, and the calculation and reporting of testing and inspection information. Our systems allow for electronic delivery of test reports and data, as well as storing project test and inspection data. We can make this system accessible to the City personnel, if needed.

Timely reporting on project issues keeps the project moving. Non-conforming items can be quickly resolved if reported daily and the weekly field report can be discussed at the weekly construction progress meeting to identify any items that need scheduling and mitigate impacts to the overall project schedule.



Task Orders and Budget Control

City of Costa Mesa and Smith-Emery will work together to prepare and agree upon a scope of work that will define our responsibilities and determine the schedule for completion of each task order. A cost estimate will be prepared to help you anticipate the associated fees for our work. We track the budget estimate on a monthly basis and a monthly billing for projects. In addition to our weekly invoicing that shows total to the invoice date. City of Costa Mesa will be notified when 70% of the budget is reached and an assessment is made as to the percentage project completion at that point.

Having worked with public agencies for 115 years, we know that agencies require consultants to adhere to their administrative processes and procedures and have reassurance that contractual procedures and invoicing will be done to their standard. We will work with you to make sure all required processes and procedures are carefully followed. We currently work with many governmental agencies and understand adherence to your formats will make the process smoother and easier. In addition to our technical reports, we can also issue administrative reports that can be issued along with the monthly invoicing for each Task Order. The administrative report will include budget spent, budget remaining, and hour and cost summary, summary if variance from plan (if any) and a narrative of services accomplished to date.

Schedule

Staff will be available 24 hours per day/7 days per week, as dictated by the project schedule. You will have the contact information for our key project personnel and be able to reach someone at all times. We will constantly be reviewing the schedule in order to accommodate the project's needs and ensure adequate staff is available at all times. We know from experience that sometimes on projects, schedules can be very fluid or disrupted. By continuing to monitor the schedule, we can stay ahead of the curve and guarantee we will have our staff available when needed, as well as not having staff waiting on site unnecessarily.

It is our philosophy to 'leave the lights on' in the laboratory - meaning our labs can be staffed 24 hours, 7 day per week basis. We are committed to keeping the projects on schedule.

Fee Schedule

The Fee Schedule including hourly rates and fees for services and fees valid through to June 30, 2020 is included in the appendix. We will submit for increases each year in the 60 days window in order to meet each prevailing wage annual increase.

Supplemental Information

A. There are no litigations, resulting settlement or judgements between Smith-Emery and any clients in the past five years.

B. Anti-Discrimination: Smith-Emery Laboratories shall not discriminate against any prospective or active employee engaging in the work because of race, color-ancestry, national origin, religious creed, sex, age or marital status. Smith-Emery Laboratories agrees to comply with applicable Federal and California laws in this regard including but not limited to the California Fair Employment and Housing Act. Smith-Emery Laboratories will not be utilizing sub-consultants on this project.





SMITH – EMERY LABORATORIES, INC.

781 E. Washington Blvd Los Angeles, CA 90021

PHONE (213) 749-3411 • FAX (213) 749-7232

1197 N. Tustin Ave. Anaheim CA92807

PHONE (714) 238-6133 • FAX (714) 283-6144

SCHEDULE OF FEES

Prepared For: City of Costa Mesa

SOUTHERN CALIFORNIA AREA

July 1, 2018– June 30, 2020



SMITH-EMERY LABORATORIES SCHEDULE OF FEES

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Effective July 1, 2018

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SMITH-EMERY

Principal

James E. Partridge P.E.-Civil.....President

Professional Staff - SEL

Artedi Cortez P.E., G.E., M.S.G.E. *World Open University, S. Dakota*
Janeth Quintero P.E.,-Civil, B.S.C.E. *Javeriana U, Bogotá Colombia*
Angelito Cabanilla, B.S.C.E., *Adamson University, Philippines*
Ayesha S. Syeda R.E.A., M.S.C.E, *Cal State University, Long Beach*
Agerico M. Banzuela, B.S.E.M., *Mapua Inst. of Tech, Philippines*
William J. Tate Jr AA-Civil, B.S. *Pudget Sound College*
Guilda Neshvad- chemistry, Ph.D., *Essex University, UK*
Azmat Imam – Chemical Engineering, M.Sc., *Ohio University, USA*
Christian Granada – Chemistry, *National University of Colombia*
Will Partridge B.S.M.E *University of San Diego, USA*

Praful Patel P.E.-Metallurgy, Ph.D, *Manchester University, U.K.*
Simon Bittar P.E.-Civil, B.S.C.E, *Cal State University, Los Angeles*
Wilfredo Bote, B.S.C.E, *Central Luzon Polytechnic, Philippines*
Ildebrando Resurreccion, B.S.C.E., *Far Eastern U, Philippines*
Rafael Cruz, B.S.E.E., *University of Santo Tomas, Philippines*
Tamey Irons, A.A.B.A., *Union College, Lincoln, NE*
Brie Canfield, A.A.C.D.F.S., *Cuesta JC, San Louis Obispo*
Etna Mejia, A.A.L.A., *LA Trade Tech, Los Angeles*
Lynn Klimasofski – B.Sc., *Cal State, Los Angeles*
Rick O Parlier – Chemical Engineering, *University of California*
Robert Rineer P.E. Civil, B.S.C.E., *Cal State University, Pomona*

Office Locations

Main Office:	Los Angeles, CA	(213) 745-5333	• Fax:
	Administration		• (213) 749-7232
	General Lab		• (213) 741-8626
	Environmental		• (213) 746-0744
	Geotechnical		• (213) 746-0744
	Environmental Testing	(213) 745-5312	(213) 745-6372
Branch Offices:	Anaheim, CA	(714) 238-6133	• Fax (714) 238-6144
	Salem, OR	(509) 285-4337	• Fax (509) 285-4355
	Shanghai, China	(86)-138-019-4	• Fax (86) 21-6327-1433
	San Francisco, CA	(415)-642-7326	• Fax (415) 642-7055
	Las Vegas, NV	(702)-840-7666	• Cell (714) 264-6332



Professional Affiliations

International Conference of Building Officials	American Chemical Society.
American Concrete Institute	American Society of Safety Engineers
American Marketing Association	American Welding Society
American National Standards Institute	Association of Environmental and Engineering Geologists
American Society of Civil Engineers	Society of Petroleum Engineers
American Society for Non Destructive Testing	Geological Society of America
American Society for Testing Materials	International Association of Plumbing & Mechanical Officials
Construction Specifications Institute	Structural Engineers Association of Southern California
Society of Fire Protection Engineers	National Society of Professional Engineers
California Geotechnical Engineers Association	American Water Works Association
American Society for Quality	Registrar Accreditation Board

Approvals and Accreditations

American Association of Transportation Officials	National Bureau Regulatory Commission
California Department of Health, Sanitation, and Radiation Dept.	Nuclear Regulatory Commission
Ceramic Tile Institute	United States Navy
City and County of San Francisco	Office of Statewide Health Planning and Development
City of Los Angeles	Division of the State Architect
California Department of Transportation	American Architectural Manufacturers Association
International Accreditation Service	ANSI ASME NQA-1 (Bechtel ASL)
Army Corps of Engineers	Concrete and Cement Reference Laboratory
American Materials Reference Laboratory	Clark County Approved Agency and Laboratory
US Department of State, Overseas Buildings Operations	State Of Florida and Dade County Approved Agency and Laboratory
International Code Conference-Evaluation Service	IAPMO Inspection Agency and Laboratory Recognition
RABQSA/Exemplar Registration and Certification (Int)	ChevRon, Exxon, Shell, and BP, Petroleum Reg. Auditing Agency
California Water Boards ELAP Accreditation	County Sanitation Districts of Los Angeles County
United States Department of Agriculture Soil Permit	

NFPA Committees on Fire Science Technology

Education Section	Building Safety Section, Commercial/Residential
Architect, Engineers and Building Official Section	National Fire Marshals Associate
	Oregon/NFPA Fire chief Association

NFPA International Association of Arson Investigators

Florida State Structural Provisions Committee	LABC Structural Committee
California Title 24 Sub-Committee	LABC Life and Safety Committee

Jurisdictional Approvals - Third Party Quality Assurance Agency and Testing Laboratory

City and County of Salem, Oregon	Los Angeles County, California
City of Corvallis, Oregon	National City, California
City of Ocean Shores, Washington	Oakland, California
City Of Palmdale, California	Portland, Oregon
Clark County, Nevada	City and County of Riverside, California
State Of Florida and Dade County, Florida	San Diego County
City and County of Spokane, Washington	San Jose, California
Emeryville, California	San Mateo, California
Grays Harbor County, Washington	State of Oregon
Honolulu, Hawaii	WABO, Seattle, Washington

OSHA Approvals for Testing

California OSHA	Oregon OHSA
Federal OSHA	Washington OSHA



Charges for Services and Contract Terms

The Charges for Services and General Conditions set forth below will govern the provision of services and will constitute the contract terms between the Client and Smith-Emery Laboratories ("Smith-Emery") unless the Client and Smith-Emery have executed a written contract with respect to such services, in which case the terms and provisions of the written contract shall control.

1. Working Conditions and Hours – Field Services

- 1.1 Minimum Charges**
Show-up -- No work performed -- 2 hours.
4 hour minimum -- 1 to 4 hours work completed before noon.
8 hour minimum -- Work over 4 hours - Any work extending past noon.
NOTE: Less than 24 hour call-out may necessitate premium charges.
- 1.2 Regular Time**
First 8 hours, Monday through Friday, between 6:30am to 4:00pm.
- 1.3 Time and One-Half**
Hours 9 through 12, Monday through Friday.
Hours 1 through 12 Saturday.
Day Shift between 3:00 a.m. and 5:00 a.m.
- 1.4 Double Time**
All hours after 12 Monday through Saturday and all day Sunday.
All holiday hours for in-plant off-site shop inspections.
- 1.5 Triple Time**
Holiday at jobsite. Holidays are: New Year's, Memorial, Presidents, Independence, Labor, Veterans, Thanksgiving, Day after Thanksgiving, and Christmas.
- 1.6 Travel Time and Mileage**
No Travel Time or Mileage within 50-mile radius of our laboratory for Deputy Inspections only. For projects outside the 50-mile radius, special quotations will be made.
Technician time charges may be portal to portal (if necessary to pick up equipment) to closest lab location plus mileage reimbursement .
- 1.7 Parking**
When not furnished, parking will be charged as paid by the SEL representative.
- 1.8 Subsistence / Per-Diem**
Inspection and or testing out of the state of California and in state greater than 50 miles from Smith Emery Office location, shall be invoice at a T&M rate by quote rate.
- 1.9 Shift Differential**
Second (Swing Shift) -- Eight (8) hours will be charged for first 7½ hours worked. Time worked in excess of 7½ hours will be billed at time and one-half rate.
Third (Graveyard Shift) -- Eight (8) hours will be charged for first 7 hours worked. Time worked in excess of 7 hours will be billed at time and one-half rate.
Northern California Steel Shops -- add 12.5% for Night Shift Differential.
- 1.10 Completion**
SEL representative will remain on job until discharged by competent authority
- 1.11 Cancellation**
No charge if made before 4:00 p.m. of the preceding day. See Minimum Charge.
- 1.12 3rd Party Billing Software**
Customer requests to submit invoice(s) via customers Software will be charged for special billing handling. Charges will show on the invoice as Special Billing Handling at a flat rate of \$45.
- 1.13 Insurance**
Smith-Emery carries all insurance required by law. Additional costs of extra insurance certificates, coinsurance endorsements or additional insurance will be invoiced to the client.



Charges for Services and Contract Terms - Continued

2. Terms of Payment

- 2.1 Upon ordering work from Smith-Emery and in consideration of the extension of credit, Client and Smith-Emery agree as follows:
- a. Invoices for services will be rendered weekly and payments thereof are due upon presentation of invoice.
 - b. Where credit terms have been requested and approved by Smith-Emery, invoice terms will be net fifteen (15) days.
 - c. Client will notify Smith-Emery of any invoice errors or necessary corrections within fifteen (15) days of receipt of invoice; thereafter, client acknowledges invoices shall be deemed to be correct.
 - d. Invoices shall be deemed delinquent if not paid within thirty (30) days from the date of invoice, and will be subject to a late payment charge of 1.5% of the invoice total plus an additional charge of 1.5% of the invoice total for each month for additional credit and collection expense incurred thereby.
 - e. Smith-Emery reserves the right to terminate its Services to Client, with 3-day notice, if all invoices are not paid currently. Upon such termination of Services, the entire amount accrued for all Services performed shall immediately become due and payable. Client waives any and all claims against Smith-Emery, its subsidiaries, affiliates, servants and agents, in connection with termination of work pursuant to this paragraph.
 - f. Should Smith-Emery deem it necessary to refer a past-due account to an attorney or to file suit for collection, Client agrees to pay all actual expenses and costs incurred thereby, including actual attorney's fees and costs. Jurisdiction and venue of all such actions and any other actions arising from this agreement or the provision of services by Smith-Emery shall be in Los Angeles County, State of California.

3. Escalation Clause

- 3.1 The prices quoted below for All Services will change after June 30st each year. On July 1st of each year thereafter, the charges for services set forth in this Schedule of Fees will be adjusted by changes in our general administrative and overhead expenses. These adjusted charges shall become the agreed upon basis for charges by Smith-Emery to Client.

4. Anticipated Costs

- 4.1 Client recognizes and agrees that any "anticipated costs," "budget estimates," or the like that may be prepared by Smith-Emery are NOT "guaranteed maximums," "lump sums," or "not-to-exceed totals." Client will be invoiced for all work performed and only for work performed based on Smith-Emery's Working Conditions and Hours as an attachment to their contract.
- 4.2 The Client recognizes that if Shop Steel inspection is listed in the proposal, that unless noted, the inspection is estimated to be performed in only one steel fabrication facility. In addition, it is recognized by the Client that any weekly overtime hours, Saturday or Sunday work, double shift, and/or night shift differential for shop steel inspection is not included in this proposal unless noted.

5. Prevailing Wage

- 5.1 Smith-Emery reserves the right to re-negotiate the hourly wage portion of the project proposal if the project is deemed to be prevailing wage after the proposal is submitted and/or signed.
- 5.2 Wage determinations for PW projects are set by the Department of Labor and become effective July 1st of each year. At that time, the charges for services set forth in this Schedule of Fees will be adjusted by the new determination and changes in our general administrative and overhead expenses. These adjusted charges shall become the agreed upon basis for charges by Smith-Emery to Client.



General Conditions

1. Indemnification

- 11 In the event of any claim against Smith-Emery by any party other than the Client, Client agrees to hold Smith-Emery, including its shareholders, officers, directors, employees, agents and representatives, free and harmless of and from, and to indemnify and defend Smith-Emery against, any and all liability, claims, causes of action, demands, judgments, losses, damages, expenses or costs (including, but not limited to, all costs and fees of litigation) of every kind, nature and description, including, but not limited to, any and all demands arising by reason of injury or death to person or damage to property, real or personal, including loss of use thereof, economic loss or loss or damages otherwise arising directly or indirectly out of the obligations herein undertaken, or out of operations conducted by Client, however caused or alleged to have been caused, even if due to the acts, errors, omissions or negligence, active, affirmative or passive of Smith-Emery, except for such losses or damages arising out of or caused by the sole negligence or willful misconduct of Smith-Emery.

2. Limitation of Liability

- 21 Client and Smith-Emery agree to limit the liability, including but not limited to liability for consequential damages, of Smith-Emery, including its shareholders, officers, directors, employees, agents and representatives for any acts, errors, omissions, breaches of contract, or negligence, active, affirmative, passive, concurrent or sole, on the part of Smith-Emery, arising directly or indirectly from the performance of the professional services under this Agreement, to Client to \$10,000 or an amount equal to Smith-Emery's fee, whichever is greater.
- 22 Client agrees and understands that, in order to provide the professional services requested at the agreed-upon fees, this Agreement does not provide for full liability of Smith-Emery for losses or damages which may arise directly or indirectly under this Agreement. Client further understands that should Client require Smith-Emery to accept exposure to greater liability under this Agreement, Client has the opportunity to negotiate in advance a higher limitation of liability, or to eliminate entirely such limit of liability, but that the higher fees commensurate with this higher risk of liability to Smith-Emery shall be subject to agreement. Client agrees that this provision limiting Smith-Emery's liability cannot be modified, altered, or varied except by a written instrument signed by client and Smith-Emery.
- 23 Client understands and agrees that Smith-Emery is not an insurer; that this Agreement does not provide Client with insurance coverage by Smith-Emery or anyone acting on its behalf; that all fees hereunder are based solely on the value of the professional services to be provided by Smith-Emery; that insurance, if any, shall be obtained by Client at Client's sole expense.

3. Dominant Terms

- 31 The terms and conditions of this Agreement shall take precedence over any terms and conditions which may appear in Client's purchase order, approval or acceptance. Any terms and conditions of Client's purchase order, approval or acceptance which are not identical to the terms and conditions of this Agreement are null and void, are not part of the Agreement between Smith-Emery and Client and are not binding upon Smith-Emery. The terms and conditions of this agreement may not be varied or changed, nor any of its provisions waived, except by written agreement, signed by an authorized representative of Smith-Emery.

PLEASE READ THESE GENERAL CONDITIONS WITH CARE



Schedule of Fees for Inspection Services

The prices quoted below for All Services will change after June 30st each year. On July 1st of each year thereafter, the charges for services set forth in this Schedule of Fees will be adjusted by changes in our general administrative and overhead expenses. These adjusted charges shall become the agreed upon basis for charges by Smith-Emery to Client. Any customized pricing received in a "Project Cost Estimate" shall supersede this document.

Concrete Inspection			Steel Shop Visual Inspection		
1111 Regular Time	\$81.00		1210 Regular Time	By Quote	
Grading Inspection			Steel Shop Non-Destructive Testing		
1510 Regular Time	\$81.00		2210 Regular Time	By Quote	
Fireproofing Inspection			Steel Field Visual Inspection		
1314 Regular Time	\$81.00		1314 Regular Time	\$81.00	
Membrane Inspection			Steel Field Non-Destructive Testing		
1810 Regular Time	\$90.00		2310 Regular Time	\$90.00	
Field Technician (ACI/SOILS/AC)			Masonry Inspection		
1815 Regular Time	\$81.00		3510 Regular Time	\$81.00	
Wood Framing Inspection			CWI /Non-Destructive Inspection		
1819 Regular Time	\$81.00		Regular Time	\$90.00	

- ✓ Subsistence / Per-Diem rate for Steel shop and/or shop non-destructive testing or any other shop inspection out of the state of California and in state greater than 50 miles from Smith Emery shall be invoice is a T&M rate by quote rate.
- ✓ GSA establishes the per diem rates for the lower 48 Continental United States (CONUS), which are the maximum allowances that employees are reimbursed for expenses incurred while on official travel.
- ✓ In accordance with per diem rate for an area are actually three allowances: the lodging allowance, meals allowance and the incidental expense allowance (car rental).
- ✓ Smith Emery shall make travel and/or subsistence payments to each worker to execute the work out of state and in state greater than 50 miles from Smith Emery. All travel and subsistence shall be invoiced to client.



General Field Services

General Field Services	Activity	Cost
Film Adhesion, ASTM D4541, Regular Time, per hour, 4-hour minimum.	4474	\$ 150.00
Dry Film Thickness, ASTM D6132, Regular Time, per hour, 4-hour minimum	4475	150.00
Adhesion/Cohesion Testing of Spray Applied Fireproofing, Regular Time, per hour, 4-hour minimum.	3210	150.00
Batch Plant Technician, Regular Time, per hour, 4-hour minimum	3310	150.00
Roofing Technician, Regular Time, per hour, 4-hour minimum	3410	150.00
Membrane Technician, Regular Time, per hour, 4-hour minimum	3510	150.00
Roofing/Waterproofing Technician, Regular Time, per hour, 4-hour minimum	3511	150.00
Torque and Pull Testing of Post Installed Anchors, Technician, Regular Time, per hour, 4-hour minimum	3512	150.00
Mixed Concrete, Technician, Regular Time, per hour, 4-hour minimum	3610	150.00
Mileage	5101	0.80
Special Testing/Inspection Services	4420	By Quote
Structural Investigations of Existing Buildings	3088	By Quote
Corrosion Survey	3096	By Quote
Ground Penetrating Radar, per hour, 4-hour minimum	3097	180.00
Equipment Delivery and Stand by time, per Hour	3099	100.00
Field Technician Minimums		
Regular Hours: Monday through Friday, 6:30am to 4:00pm.		
Show-up time, no work performed		2-hour minimum charge
Field Service Calls		4 and 8-hour minimum charge
Field Services Work		a minimum of 1 hour per week engineering supervision may be charged
Overtime		
Monday through Friday, Over 8 Hours or after 4:00 p.m.; Saturday, 1 to 12 Hours		time and one-half
Sundays and Holidays, 1 to 8 Hours		time and one-half
Monday through Saturday, Over 12 Hours; Sundays and Holidays, Over 8 Hours		double time
Field Equipment Charges		
Skidmore, per day	4415	100.00
Torque Wrench, per day	4413	75.00
Multiplier, per day	4414	30.00
Pull Test Equipment (ram, pump, gage), per day	4464	150.00
Dynamometer, per day	4465	75.00
Schmidt Hammer, per day	9704	75.00
Rental Dipstick 2000, per week	4825	2,500.00
Flatness Testing, half day	4814	600.00
Flatness Testing, per day	4826	1,200.00
Field Hardness Equipment, per day	9117	65.00
Dry Film Thickness Gage, per day	4409	65.00
Misc. Equipment Charge	4416	By Quote
Photostress, per day	4419	By Quote
Vibration and Sound Monitoring, per day.	4430	By Quote
Concrete Air Meter, Pressure of Volumetric, per day..	4431	75.00
Concrete Unit Weight Kit, scale, bucket, plate, mallet, and rod, per day	4436	75.00
2-inch cube brass embecco molds, each per day.	4437	75.00
Film Adhesion Equipment, Dollies and Epoxy, per day	9127	100.00
Strain Gages	4467	By Quote



	Activity	Cost
Fall Prevention Equipment, per day	4397	\$ 50.00
Mobile Concrete Laboratory	4398	280.00

Concrete Coring Services

Technician and Equipment Concrete (4 and 8 hour minimum), per hour	3710	\$150.00
Coring for Overhead / Ceiling coring, (4 hr. minimum), per hour.	3910	185.00
Miscellaneous Concrete Coring Prices:		
Patching Slab on Grade Cored Holes with 2500 psi Concrete Patch, each	7345	\$ 40.00
Scaffolding, per day	7348	150.00
Thickness Determination per ASTM C42, each	7346	30.00
Compression Strength Determination (Including sample preparation and capping), each	7347	100.00
Travel Time, per hour (travel time by quote for prevailing wage projects)	7235	90.00
Mileage, per mile	7313	0.80

Asphalt Concrete Coring Services

Technician and Equipment Asphaltic Concrete Cores (4 and 8 hour minimum), per hour	3710	150.00
Alternate Individual Core Prices (all prices are for a four core minimum job):		
Asphaltic Concrete Cores 2", 3" and 4" Diameter (First 6" in depth), each	7022	60.00
Asphaltic Concrete Cores 6" and 8" Diameter (first 6" in depth), each	7029	60.00
Asphaltic Concrete Cores price per inch after 6" in depth), each	7030	3.50
Miscellaneous Asphaltic Coring Prices:		
Patching of Core Drilled Holes Using Cold Patch Material, each	7031	25.00
Thickness Determination per ASTM C42, each	7032	25.00
Specific Gravity for Determination of Percent Compaction per ASTM D 2726, each	7033	35.00
Specific Gravity for Determination of Percent Compaction by paraffin, each	7034	55.00

Professional Staff

Registered Professional Engineer, Laboratory, per hour	3011	205.00
Staff Engineer, per hour	3015	155.00
Laboratory Supervisor, regular time, per hour	3012	115.00
Test Technicians -- Laboratory, regular time, per hour	3013	110.00
Test Technicians -- Away from Lab, Regular Time, per hour	3014	110.00
Field Testing -Training, regular time, per hour.	3009	110.00
Submittal Review, per hour	2441	205.00
Steel Shop Management, per hour	2442	115.00
Level III Supervisor – ASNT, per hour	2443	140.00

Expert Witness Testimony

Court Appearance, per hour, four-hour minimum	9603	400.00
Preparation for Court, Consultations, per hour	9605	300.00
<i>Plus actual expenses when out-of-town</i>		

Miscellaneous Support Fees

Administrative

Administrative Support	4443	5% of Invoice
*Report Charge, per report, per copy	9110	2.75
Final Report Charge	9111	By Quote
General Testing-Rush Charges	4812	+50%

Special Testing

Miscellaneous Sample Pick-up, per hour	5022	80.00
Miscellaneous Pick-up, per trip minimum (within 40-mile radius)	5023	150.00
Miscellaneous Pick-up, per trip minimum (more than 40-mile radius)	5028	250.00
Materials Purchased	4406	By Quote
Sample Preparation	4408	By Quote
Special Test Set-Up (2-techs+1 engineer crew) per hour	4422	300.00



	Activity	Cost
Special Testing	4420	By Quote
Sample Disposal	4425	By Quote
Travel Expenses		
Subsistence, per day	1103	By Quote
Travel Expense	1106	Cost+25%
Travel Time, per hour	4456	\$ 90.00
Mileage, per mile	5101	0.80
Outside Services		
Concrete Core Cutting	4313	Cost + 25%
Materials Purchased	4406	By Quote
Rental of Equipment	4416	Cost + 20%
Outside Laboratory	4417	By Quote
Outside Services	9702	Cost + 25%
Laboratory Hours		
Laboratory hours are 7:00AM through 4:00PM, Monday through Friday.		
Additional charges will be made for off-hours or weekend testing as follows:		
Off-hour Laboratory Operations, per day	5051	1,000
Holiday Laboratory Operations, per day	5052	1,500
*Generally for Compression Testing of Concrete, Base Plate Grout, Masonry Mortar and Grout, as well as Tension and Bend Testing of Reinforcing Steel.		

Aggregate Properties

Absorption, Coarse, ASTM C 127, each	7000	45.00
Fine, ASTM C 128, each	7001	55.00
Hardness Test, ASTM D 1865, each	7557	By Quote
In Lab Rock Coring and Cutting	4312	\$ 100.00
Loss On Ignition, ASTM C25	7037	By Quote
Percent Flat/Elongated CRD C 119, ASTM D 4791, each	7010	200.00
Plate Bearing Test, ASTM D 1195, D 1196	7118	By Quote
Petrographic Analysis of Aggregate for Concrete, ASTM C295, each	7024	By Quote
Potential Alkali-Silica Reactivity of Aggregate for Concrete, ASTM C 289, Chemical Method, each	7551	By Quote
Potential Alkali Reactivity of Aggregate for Concrete, ASTM C 1260, Mortar-Bar Method, each	7552	By Quote
Potential Alkali Reactivity of Carbonate Rocks for Concrete, ASTM C 586, Rock Cylinder Method, each	7565	By Quote
Sodium soundness - Fine, 5 cycles, ASTM C 88, each	7012	220.00
Sodium soundness - Fine, 5 cycles, with sample preparation ASTM C 88, each	7046	295.00
Sodium soundness - Coarse, 5 cycles, ASTM C 88, each	7047	230.00
Sodium soundness - Coarse, 5 cycles, with sample preparation ASTM C 88, each	7050	280.00
Magnesium soundness - Fine, 5 cycles, ASTM C 88, each	7048	235.00
Magnesium soundness - Coarse, 5 cycles, ASTM C 88, each	7049	270.00
Specific Gravity, Bulk SSD, Coarse up to 1 1/2", ASTM C 127, each	7013	70.00
Specific Gravity, Bulk SSD, Coarse up to 2 1/2", ASTM C 127, each	7051	110.00
Specific Gravity, Bulk SSD, Coarse up to 2 1/2", Complete ASTM C 127, each	7052	175.00
Specific Gravity, Bulk SSD, Fine, ASTM C 128, each	7014	80.00
Specific Gravity, Bulk SSD, Coarse, Complete ASTM C 127, each	7045	125.00
Specific Gravity, Bulk SSD, Fine, Complete ASTM C 128, each	7046	135.00
Unconfined Compression Test of Intact Rock, ASTM D2938, each	7021	70.00
Unit Weight, ASTM C 29, (No Air Void Determination) each	7017	70.00
Unit Weight and Air Void Determination - Coarse Aggregates up to 1", ASTM C 29, each	7035	200.00
Unit Weight and Air Void Determination - Fine Aggregates, ASTM C 29, each	7036	200.00
Unit Weight only - Coarse Aggregates up to 2 1/2", ASTM C 29, each	7053	125.00
Unit Weight and Air Void Determination - Coarse Aggregates up to 2 1/2", ASTM C 29, each	7054	225.00



Conformity

	Activity	Cost
Clay Lumps/Friable Particles, ASTM C 142, each	7101	\$ 80.00
Cleanness Value, Calif. 227, 2 ½" x 1 ½" each	7055	225.00
Cleanness Value, Calif. 227, 1 ½" x 1" each	7056	150.00
Cleanness Value, Calif. 227, up to 1" each	7004	125.00
Durability Index, Calif. 229, Coarse, each	7005	150.00
Durability Index, Calif. 229, Fine, each	7006	150.00
Los Angeles Rattler, up to 1 ½" ASTM C 131, each	7008	170.00
Los Angeles Rattler, up to 1 ½" with sample preparation ASTM C 131, each	7057	200.00
Los Angeles Rattler, up to 2 ½" ASTM C 535, each	7009	200.00
Los Angeles Rattler, up to 2 ½" with sample preparation ASTM C 535, each	7058	235.00
Lightweight Aggregate, Coarse, ASTM C 123, each	7007	By Quote
Lightweight Aggregate, Fine, ASTM C 123, each	8514	By Quote
Organic Impurities, ASTM C40	7115	50.00
Sand Equivalent (Average of 3) Calif. 217, each	8516	90.00
Sand Equivalent (Average of 3) ASTM D 2419, each	7123	90.00
Sieve Analysis, Coarse, ASTM C 136, Cal Test 202 each up to 1 ½"	7015	125.00
Sieve Analysis, Coarse, ASTM C 136, Cal Test 202 each greater than 1 ½"	7039	200.00
Sieve Analysis, Fine, ASTM C 136, Cal Test 202, each	7016	110.00
Sieve Analysis, Fine and Coarse Combined up to 1 ½", ASTM C 136, Cal Test 202, each	7549	210.00
Staining Materials, ASTM C 641, each	7553	By Quote
A Rush Charge of 100% for same-day results apply to the following tests:		
• ASTM C136		
• ASTM C29 (Unit Weightonly)		

Laboratory Testing-Asphalt Concrete

Asphalt Concrete

Aggregate Correction for Ignition Oven, each..	4117	\$ 50.00
Asphalt Core Density, each	4112	35.00
Centrifuge Kerosene Equivalent	4118	150.00
Complete Asphalt Concrete Mix Design, each	4119	By Quote
Extraction, % Asphalt, ASTM D 2172 (Method A, B, or C) or Calif. 310. Excluding Ash Correction, each	4110	75.00
Extraction, % Asphalt, Ignition Oven, each.	4111	100.00
Gradation on Extracted Sample (Including Wash) Calif. 202, each	4108	100.00
Maximum Density		
• Hveem, Lab-mixed - Calif. 366, each	4104	175.00
• Hveem, Pre-mixed - Calif. 366, each	4105	135.00
• Marshall, 4-Inch Lab-mixed - ASTM D 1559, each	4106	175.00
• Marshall, 4-Inch Pre-mixed - ASTM D 1559, each	4107	125.00
• Marshall, 6-Inch Lab-mixed - ASTM D 5581, each	4122	300.00
• Marshall, 6-Inch Pre-mixed - ASTM D 5581, each	4123	250.00
Maximum Theoretical Unit Weight (Rice Gravity) ASTM 2041, each	4120	175.00
Moisture Content of Asphalt, CT382	7019	35.00
Moisture Vapor Susceptibility	4113	200.00
Penetration ASTM D 5, each	4109	60.00
Stability Tests:		
• Hveem, Lab-mixed - Calif. 304, each	4100	250.00
• Hveem, Pre-mixed - Calif. 304, each	4101	200.00
• Marshall, 4-Inch Lab-mixed - ASTM D 1559, each	4102	250.00
• Marshall, 4-Inch Pre -mixed - ASTM D 1559, each	4103	200.00
• Marshall, 6-Inch Pre -mixed - ASTM D 5581, each.	4124	250.00
• Marshall, 6-Inch Lab-mixed - ASTM D 5581, each	4125	200.00
Non-Destructive Pavement Deflection Testing using Benkelman Beam	4141	By Quote



Laboratory Calibration

Calibration Verification of Skidmore-Wilhelm Device & Torque Wrench	Activity	Cost
Calibration of Skidmore-Wilhelm Device, in Lab up to 110,000 lbs	4403	\$ 150.00
Calibration of Skidmore-Wilhelm Device, in Lab up to 115,000 to 200,000 lbs	4126	250.00
Calibration of Torque Wrench by Skidmore-Wilhelm Device, each bolt size (3 required)	4404	125.00
Calibration Verification of Hydraulic Jacks		
Up to 50-tons	4450	175.00
51 to 74-tons	4451	200.00
75 to 99-tons	4452	225.00
100 to 199-tons	4453	275.00
200 to 299-tons	4454	300.00
300 to 500-tons	4466	500.00
Custom Systems	4455	By Quote

Note: Extra-handling charges will be made on any ram or pump too heavy or bulky for one man to lift.

Calibration Verification of Measuring Device

Calibration of Linear Measuring Device, each	4497	By Quote
Calibration of Temperature Measuring Device, each	4498	By Quote
Calibration of Mass Measuring Device, each	4499	By Quote
Calibration of Force Measuring Device, each	4483	By Quote
Calibration of Pressure Measuring Device, each	4484	By Quote
Calibration of Miscellaneous Measuring Device, each	4485	By Quote
Calibration of Infrared Temperature Gun, each	4486	125.00
Calibration of Amp Measuring Device, each	4487	125.00
Calibration of Torque Wrench, each (0 to 250 ft-lbs)	4488	125.00
Calibration of Torque Wrench, each (0 to 251 to 600 ft-lbs)	4127	175.00
Calibration of Pressure Gage, each (0 to 600 psi)	4128	150.00
Calibration of Pressure Gage, each (601 to 5000 psi)	4129	250.00

The will be a Minimum Charge of \$150 for any Tile Testing Service.

Laboratory Ceramic, Porcelain, and Clay Tile Testing

Lab Technician, per hour	3013	105.00
Dimensional		
Thickness, 5.50 each (ANSI requires 80) ASTM C499	4900	500.00
Facial Dim, 5.50 each (ANSI requires 80) ASTM C499	4901	500.00
Warpage, 7.31 each (80 required) ASTM C485	4902	585.00
Wedging, 7.31 each (80 required) ASTM C502	4903	585.00
Friction		
Static Coefficient of Friction (3) per set (Not Modified) (*Withdrawn ASTM)..ASTM C1028*	4904	440.00
Coefficient of Friction (3) per set (Modified) (*Withdrawn ASTM) ASTM C1028*	4934	440.00
Dynamic Coefficient of Friction (3) per set (Ceramic Only) ANSIA137.1	4935	440.00
Dynamic Coefficient of Friction (5) per set (all except Ceramic)ANSI B101.3	4960	440.00
Physical		
Water Absorption, 65.00 each (5 required) ASTM C373	4905	395.00
Initial Rate of Absorption, 47.00 each (5 required) ASTM C373	4936	235.00
Thermal Shock, (5 required) per set ASTM C484	4911	365.00



	Activity	Cost
Mohs Hardness (5 required) per set	4923	\$ 158.00
Length Change (3 required) per set ASTM C157* Modified	4980	900.00
Strength (ANSI A137.1)		
Bond Strength, 92.00 each (shear test) (5 required) ASTM C482	4906	460.00
Breaking Strength, 30.00 each (10 required) ASTM C648	4907	285.00
Breaking Load Strength - Flex or Center point.(5 required) per set ASTM C293	4981	300.00
Compressive Strength, Modified with Cutting, each ASTM C67	4937	100.00
Compressive Strength Test , (5 required) per set ASTM C42*Modified	4982	475.00
Flexural Strength Test , (5 required) per set ASTM C674*Modified	4983	365.00
Modulus of Rupture, Ceramic 85.00 each (5 required) ASTM C133	4916	425.00
Impact, (10 required), per set ASTM C368	4920	315.00
Impact, (LA S-601-3), (5 req) per set ASTM D2444*Modified	4984	440.00
Tensile Tests in Laboratory, CTI	4924	By Quote
Veneer Bond Strength, 2-required ASTM C482 Modified	4928	By Quote
Shear Tests, (Grout/Thin Set Evaluation; Tile to Tile) 5 minimum ANSI	4925	350.00
Shear Tests, (Material Shear), 5 minimum ANSI	4926	350.00
Water Immersion Processing for Shear Tests, 5 minimum . ANSI	4927	350.00
Oven Processing for Shear Tests, 5 minimum ANSI	4932	350.00
Low Temperature Processing for Shear Tests, 5 minimum ANSI	4933	350.00
Bond Strength, 65.00 each (Glass tile 4 dry 4 wet, 28 Days) ANSI A 137.2	4965	520.00
Abrasive Wear Index, 100.00 each (4 required) ASTM C501	4908	420.00
Crazing, (5 cycles) ASTM C424	4909	750.00
(Per ANSI Crazing Requirement) per set (65 samples) ANSI/ASTM C126	4910	365.00
Glaze Adhesion, each (modified ASTM) ASTM D4541	4938	90.00
Color Uniformity ASTM C609	4912	By Quote
Chemical Resistance (qualitative Only 10% HCL and KOH) ASTM C650/C126	4913	365.00
Chemical Resistance (above + Swim Pool Chem) ASTM C650/ C126	4961	535.00
Chemical Resistance (Extended ASTM Version) ASTM C650/ C126	4962	1,350.00
Glaze Permeability, (Ink Coating Inspection) ASTM C67	4963	185.00
Performance		
Freeze-Thaw Resistance (10) 50 cycles, per set ASTM C1026	4914	2,995.00
Additional cycles, per cycle/tile	4915	65.00
Freeze Thaw (10) 50 cycles) 2 -3 months, per set ASTM C67	4985	2,250.00
Moisture Expansion, (5 required) ASTM C370* Modified.	4917	630.00
C.T.I. Stain Resistance (8 required) SetCTI T72	4921	158.00
Reflectance Test, each. CTI	4922	By Quote
Autoclave (3 required), eachCTI	4930	350.00
Abrasion Test only. (LA S-601-3) , 2pcs, set . ASTM C2486	4939	90.00
Water Absorption and Saturation Coefficient, 90.00 each (5 required), per set ASTM C67	4952	450.00
Abrasion Test & Skid Coeff. (LA S-601-3) , 4pcs, set ASTM C2486 and C1028	4986	990.00
Abrasion Test only. (LA S-601-3) , 2pcs, set ASTM C2486...	.4987	660.00
Floor Systems and Components		
Floor Installation Performance Level, Robinsons Floor Test ASTM C627-76:		
First Panel -- Not Including Tile or Installation	4918	1,890.00
Second or More on Same Purchase Order	4919	1,260.00



Miscellaneous

Ceramic Tile Material Purchase CTI
Ceramic Tile Miscellaneous CTI

Activity	Cost
4956	By Quote
4929	By Quote

Mortar Testing

Mortar ANSI Test ANSI
Mortar Compression Test, each ASTM C109
Mortar Miscellaneous Test CTI
Mortar Skinning Test, each CTI
Mortar Initial Setting Time, each CTI
Mortar Drop-off Test, each CTI

4940	By Quote
4944	\$65.00
4945	By Quote
4941	115.00
4942	80.00
4943	By Quote

Grout Testing

Grout ANSI Test ANSI
Grout Drop-off Test CTI
Grout Miscellaneous Test CTI
Grout Skinning Test, each CTI
Grout Compression - 2" cubes, each C1019

4950	By Quote
4953	By Quote
4955	By Quote
4951	115.00
4954	65.00

Dimension Stone / Building Stone Testing

Compression Test, (*20 required), per set ASTM C170
Flex Strength, Cut Samples (*20 required), per set ASTM C880
Flex Strength, Full Size Samples (*20 required), per set (max 40 lbs/ sample) ASTM C880
Modulus/Rupture (*20 required), per set ASTM C99
*20 Samples tested as follows: 5 Samples tested Wet, Parallel to the grain
5 Samples tested Wet, Perpendicular to the grain
5 Samples tested Dry, Parallel to the grain
5 Samples tested Dry, Perpendicular to the grain

Activity	Cost
4800	1,060.00
4801	1,060.00
4931	3,660.00
4802	1,060.00

Water Absorption and Density, (5 required), per set ASTM C97/ C672
Abrasion Resistance, (3 required), per set ASTM C1353
Anchor Pull Test (No deflection measurement), each ASTM C1354
Anchor Pull Test (With deflection measurement), each ASTM C1354
Soundness Test , (5 samples required) , per set ASTM C88
Breaking Load, (5 samples required) , per set ASTM C67

4804	395.00
4810	460.00
4811	135.00
4819	235.00
4818	470.00
4817	350.00

Field Testing ASTM C482

Field Technician, per hour
Ceramic Tile Technician Mileage, per mile.
Pick-up Sample - within 40-mile radius from Laboratory, per hour
Field Slip Resistance Test, ASTM C1028, first test (*Withdrawn Standard) ASTM C1028*
Field Slip Resistance Test, ASTM C1028, additional test in same area, each ASTM 1028*
Dynamic Coefficient of Friction (installed floor) ANSI B101.3
Dynamic Coefficient of Friction (ceramic only installed) ANSI A137.1
Field Veneer Bond Strength ASTM C482

3014	105.00
5101	0.80
5019	65.00
4957	650.00
4958	400.00
4970	650.00
4971	650.00
4959	By Quote

Laboratory Testing-Concrete

Cylinders, Beams & Cores

Compression Test sample prep. and cap., 6" x 12" cylinders, including untested holds, ASTM C 39, each
Compression Test sample prep. and cap , 4" x 8" cylinders, including untested holds, ASTM C 39, each
Weight per cubic foot of lightweight concrete cylinders, each
Flexure Test, 6" x 6" beams, ASTM C 78, each
Splitting Tensile, 6" x 12" cylinders, ASTM C 496, each
Modulus of Elasticity Test - Static, ASTM C 469, each (includes comp. and Unit weight)
Thermal Expansion of Concrete, AASHTO T336, each
Unit Weight, Absorption, and Voids in Hardened Concrete, ASTM C642, each

4300	40.00
4329	40.00
4303	80.00
4304	90.00
4305	70.00
4306	225.00
4228	400.00
4227	250.00



	Activity	Cost
Compression Test, 2" - 4" - 6" Cores, ASTM C 42 Including sample preparation and capping, each	4311	\$ 100.00
In Laboratory Core Cutting, each	4312	65.00
Cylinder Trans. and Processing (within 40-mile radius from Laboratory * Add \$100 for more than 40 mile radius)		
6:30 a.m. to 4:00 p.m., Monday through Friday - per sample	5000	20.00
Before 6:30 a.m. and after 4:00 p.m. and Saturday	5001	30.00
Sunday and Holidays - per sample	5002	35.00
*Minimum Pick-up Charge	5003	150.00
Trans. and Processing of Flexural Test Beams -within 40-mile radius from Laboratory, each.	5021	40.00
Forensic Testing		
Petrographic Examination, ASTM C856	4319	By Quote
Moisture Vapor Transmission, Calcium Chloride Moisture Kit, Per Location ASTM F1869	4459	25.00
Inplace Moisture Content	4457	75.00
Corrosion Potential, Half Cell, ASTM C876	4489	By Quote
Pulse Velocity, ASTM C597	4301	By Quote
Cement Analysis, ASTM C114, each	4473	By Quote
Shrinkage		
Length Change (3 bars, 4 readings, up to 90 days), ASTM C 157 Modified	4307	400.00
Additional Reading, per set of 3 bars	4308	75.00
Storage over 90 days, per set of 3 bars, per month	4302	75.00
Trans. and Processing /Deliver Shrinkage Molds/Samples-within 40-mile radius from Laboratory, per set	5020	60.00
Mix Design		
Mix Design, Determination of Proportions, (Next Day Turn Around) each	9505	250.00
Mix Design, Determination of Proportions, (3 Business Day Turn Around) each	9500	200.00
Mix Design, Determination of Proportions, Requiring Same Day Service, each	9501	300.00
Preparation of Special Strength Documentation for Mix Design, per hour	9502	195.00
Amend or Retype Existing Smith-Emery Mix Designs not involving calculations, each	9503	150.00
Review Mix Design prepared by Others, per hour	9504	195.00
Laboratory Trial Batch		
Laboratory Trial Batch, (includes slump, % air, unit weight, and up to 7-cylinders; ASTM C 192, each	4309	700.00
Laboratory Trial Batch, (including the items above and shrinkage; ASTM C 192, each	4310	750.00
Sampling Material for Laboratory Trial Batches, per hour	4315	150.00
Gunite & Shotcrete		
Compression, 2", 4", 6" Cores, including, preparation, capping, and trimming ASTM C 42, each	4314	100.00
Trans. and Processing Shotcrete Cores-within 40-mile radius from Laboratory	5016	25.00
Trans. and Processing Gunite Field Sample (within 40-mile radius from Laboratory) less 12x12x6-in., ea	5017	\$ 60.00
Trans. and Processing Gunite Field Sample (within 40-mile radius from Laboratory) up to 12x12x12., ea	5018	100.00
Trans. and Processing Gunite Field Sample (within 40-mile radius from Laboratory) 2-feet square min., ea	5028	250.00
ACI 506.2 Core Grading, per core	5027	150.00
Lightweight Roof Fill ASTM C 495		
Compression Test including capping, and preparation, each	4380	100.00
Density, each	4381	100.00
Cell-Crete 7-days and 14-days report	4382	75.00

Laboratory Testing-Construction Materials

Roofing Tile

Absorption, each	4700	65.00
Additional/Special Tests	4701	By Quote
Breaking Strength per U.B.C., each	4702	65.00

Slate

Modulus of Elasticity, ASTM C120, 3 parallel, 3 perpendicular, \$90 each	4805	540.00
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	Activity	Cost
Modulus of Rupture, ASTM C120, 3 parallel, 3 perpendicular, \$90 each	4806	\$ 540.00
Water Absorption, ASTM C121, 3 parallel, 3 perpendicular, \$40 each	4807	240.00
Weathering, ASTM C217, 3-samples, \$90 each	4808	310.00
Wire Rope		
Wire Rope 0 through 1" diameter, each	4426	150.00
Wire Rope 1 through 2" diameter, each.	4427	250.00
Wire Rope over 2" diameter, each	4428	By Quote
Note: Sockets furnished by client		
Epoxy - Cores & Coring		
Field Coring Technician and standard equipment, per hour	3710	150.00
Shear Test on Epoxied Cores, each .	4318	100.00
Epoxied Cores Visual Inspection, each	4346	100.00
Compression Test, Cylinders, each	4316	100.00
Compression Test, Cores, each	4317	100.00
Pick-up Epoxy Cylinders-within 40-mile radius from Laboratory, per sample	5026	20.00
Fireproofing Tests		
Oven Dry Density, per sample	4350	100.00
Adhesion/Cohesion Testing, per hour, 4-hour minimum	4351	100.00
Pick-up Fireproofing Samples-within 40-mile radius from Laboratory, per sample	5014	25.00
Glass Fiber Reinforced Concrete		
Flexural Strength, without M.O.E. 6 required, \$45.00 each	4320	270.00
Flexural Strength with M.O.E., 6 required, \$145.00 each.	4321	870.00
Density, 3 required, \$50.00 each	4322	150.00
Tensile Strength, 3 required, \$75.00 each	4323	225.00
Shear Strength, 3 required, \$75.00 each	4324	225.00
Saturation Resin for Fiber Composite		
Water Absorption, ASTM D570.	4340	200.00
Compressive Yield Strength, ASTM D695	4341	600.00
Flexural Strength, ASTM D790	4342	750.00
Shore Hardness, ASTM D2240	4343	200.00
Performance		
Tensile Strength and Elongation, ASTM D638	4344	750.00
Evaluation per MWD RFQ 704	4345	By Quote
Structural Lumber		
Flexure, ASTM D198	4470	By Quote
Compression, ASTM D198	4471	By Quote
Tension, ASTM D198	4472	By Quote
Torsion, ASTM D198	4478	By Quote
Shear, ASTM D198	4476	By Quote
Specialty Grout		
Rapid-Hardening Grout, ASTM C928	4395	By Quote
Non-Shrink Grout, ASTM C1107	4396	By Quote
Time of Setting, ASTM C266, each	4490	By Quote
Sulfate Expansion. ASTM C1012, each	4491	By Quote
Flexural Strength, ASTM C348, each	4492	By Quote
Consistence (Cone Test), ASTM C939, each	4493	By Quote
Bleeding, ASTM C940	4494	By Quote
Total Chloride Ions, ASTM C1152, each	4495	By Quote
Permeability, ASTM C1202, each	4496	By Quote
Standard Specification for Mortar for Unit Masonry, ASTM C270	4550	By Quote
Potential Alkali-Silica Reactivity by Mortar Bar Method, ASTM C1260	4551	By Quote



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	Activity	Cost
Potential Alkali- Silica Reactivity by Accelerated Mortar Bar Method, C1567	4552	By Quote
Standard Specification for Plastic (Stucco) Cement	4553	By Quote
Standard Specification for Non-Asbestos Fiber Mat Reinforced Cement Substrate Sheets	4554	By Quote
Roofing Tile		
Absorption, each	4700	\$ 65.00
Additional/Special Tests	4701	By Quote
Breaking Strength per U.B.C., each	4702	65.00
Slate		
Modulus of Elasticity, ASTM C120, 3 parallel, 3 perpendicular, \$90 each	4805	540.00
Modulus of Rupture, ASTM C120, 3 parallel, 3 perpendicular, \$90 each	4806	540.00
Water Absorption, ASTM C121, 3 parallel, 3 perpendicular, \$40 each	4807	240.00
Weathering, ASTM C217, 3-samples, \$90 each	4808	310.00
Wire Rope		
Wire Rope 0 through 1" diameter, each	4426	150.00
Wire Rope 1 through 2" diameter, each.	4427	250.00
Wire Rope over 2" diameter, each	4428	By Quote
<i>Note: Sockets furnished by client</i>		
Epoxy - Cores & Coring		
Field Coring Technician and standard equipment, per hour	3710	150.00
Shear Test on Epoxied Cores, each .	4318	100.00
Epoxied Cores Visual Inspection, each	4346	100.00
Compression Test, Cylinders, each	4316	100.00
Compression Test, Cores, each	4317	100.00
Pick-up Epoxy Cylinders-within 40-mile radius from Laboratory, per sample	5026	20.00
Fireproofing Tests		
Oven Dry Density, per sample	4350	100.00
Adhesion/Cohesion Testing, per hour, 4-hour minimum	4351	100.00
Pick-up Fireproofing Samples-within 40-mile radius from Laboratory, per sample	5014	25.00
Glass Fiber Reinforced Concrete		
Flexural Strength, without M.O.E. 6 required, \$45.00 each	4320	270.00
Flexural Strength with M.O.E., 6 required, \$145.00 each.	4321	870.00
Density, 3 required, \$50.00 each	4322	150.00
Tensile Strength, 3 required, \$75.00 each	4323	225.00
Shear Strength, 3 required, \$75.00 each	4324	225.00
Fiber Wrap		
Tensile Strength, ASTM D 30391 panel (12"x12"), 5 samples(1 X 10- in), \$170.00 each	4326	850.00



Laboratory Testing - Curtain Wall Los Angeles and San Francisco

Mock-Up Performance Testing; Testing Bays Available in the Following Sizes:

Test Bays	Height (feet)	Width (feet)
1	100	35
1	45	75
5	34	20
1	30	10
1	20	20

Custom Test Bay Sizes Available by Quote.

Inspection and Testing

	Activity	Cost
Lab Tech Away from Lab	3019	\$ 125.00
Special Curtain Wall Evaluation, per hour		125.00
Curtain Wall Attachment, per hour		125.00
Exterior Skin from Swing Stage (2 men), per hour		250.00
Caulking, Sealants, Adhesives, per hour		125.00
Coatings, Paint, per hour		By Quote

Field Testing

Field Water Test, AAMA 501.2, (2 men) per hour	8113	250.00
Field Testing of Newly Installed Fenestration System Products, AAMA 502	8114	By Quote
Field Testing of Newly Installed Storefronts, Curtain Walls, and Sloped Glazing Systems, AAMA 503	8115	By Quote
Field Testing of Masonry Walls, ASTM C1601	8116	By Quote
Field Posi Test, ASTM E1186	8133	By Quote
Adhesion Testing SSG ASTM C1401	8134	By Quote
Adhesion Testing ASTM C1521	8135	By Quote
Water Penetration of Masonry ASTM C1601	8136	By Quote
Evaluating Water Leakage in Buildings ASTM E2128	8137	By Quote
Portable Adhesion Testing of Coatings ASTM D4541	8138	By Quote
Field Dynamic Water Penetration AAMA501.1	8139	By Quote

Materials Evaluation

Glass, Granite, Metal Cladding, Caulking, Paint Coatings Adhesive Bond, Chemical Analysis	8112	By Quote
Point Load Testing on Structurally Glazed Glass, ASTM STP1286	8123	By Quote
Lab Testing of Masonry Walls, ASTM E514	8124	By Quote
Stress and Rupture - Stone and Granite	8111	By Quote
Water Testing Leakage Through Masonry ASTM E514	8140	By Quote

Air and Water

Static Water Infiltration, ASTM E 331/1105.	8102	By Quote
Static Air Infiltration, ASTM E 283/783	8104	By Quote
Dynamic Water Infiltration	8103	1,800.00
Water Penetration By Cyclic Air Pressure, ASTM E547/E1105	8105	By Quote
Pressure Equalized Rain Screen, AAMA 508	8125	By Quote



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Structural

Seismic Structural Loading	8122	By Quote
Structural Performance ASTM E 330	8106	By Quote
Seismic and Wind Induced Interstory Drift, AAMA 501.4	8126	By Quote
Seismic Drift Causing Glass Fallout, AAMA 501.6	8127	By Quote
Vertical Interstory Movements, AAMA 501.7	8128	By Quote
Impact and Cycling Testing, AAMA 506	8129	By Quote
Concentrated Load Testing (window washer, etc.)	8109	By Quote

Thermal

AAMA Thermal Testing	8110	By Quote
Thermal Performance Test, AAMA 1503	8130	By Quote
Thermal Cycling of Exterior Walls, AAMA 501.5	8131	By Quote

Hurricane

Impact Cannon Testing, ASTM E1996/E1886	8132	By Quote
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Multi-Channel Computer Aided Data Acquisition of:

Acceleration	4946	By Quote
Vibration	4430	By Quote
Movements (0.0001 inch)	4947	By Quote
Pressure	4948	By Quote
Machine Control Movement.	4468	By Quote
Temperature	4469	By Quote
Strain Gauge	4418	By Quote
Stress Analysis	4949	By Quote
Cyclic Seismic Testing of Components of Steel Structures, ATC-24, FEMA 350, FEMA 450	4439	By Quote



Laboratory Testing-Masonry

	Activity	Cost
Brick ASTM C 67		
Compressive Strength including sample preparation and capping, each	4200	\$ 100.00
Modulus of Rupture (flexure) including sampling preparation, each	4201	100.00
Flexural Bond Strength, One set of five joints	4217	300.00
Dimensions, overall, coring, shell and web thickness, per brick	4202	50.00
Coefficient of Friction (slip test), each	4203	185.00
Initial Rate of Absorption, each	4204	45.00
Absorption - 5 hour or 24 hour, set of 3	4205	150.00
Boil, 1, 2 or 5 hour, set of 3	4206	250.00
Efflorescence, each	4207	130.00
Freeze Thaw (8x8, 4x4), 5 samples, 50 cycles	4222	1,500.00
Pick-up Brick Samples, each	5009	20.00
Solid Concrete Interlocking Paving Units ASTM C 936		
Compressive Strength including sample preparation, each	4232	100.00
Unit Weight, each	4233	100.00
Concrete Block ASTM C 140		
Compression, 3 required, \$75.00 each including sample trimming preparation and capping	4210	225.00
Moisture Content as Received, each	4211	75.00
Absorption, 3 required, \$75.00 each	4212	225.00
Shrinkage, Modified British, ASTM C 426, 3 required, \$150.00 each	4213	450.00
Coupon Cutting, each	4229	50.00
Compression, 4" - 6" - 8" Cores including sample preparation and capping, each	4221	100.00
Complete C140	4220	900.00
Transportation and processing Block Samples - within a 40-mile radius of laboratory, each	5010	25.00
Masonry Prisms ASTM C 1314		
Compression Test, 8"x16" Grouted Prisms including trimming and capping, each	4218	200.00
Compression Test, 12"x24" Grouted Prisms including trimming and capping, each	4225	350.00
Compression Test, 16"x32" Grouted Prisms including trimming and capping, each	4226	750.00
Compression Test with MOE, Grouted Prisms, each	4223	600.00
Unit Weight, Grouted Prisms, each	4224	100.00
Cutting Prisms, when required (Solid)	4219	130.00
Cutting Prisms, when required (Not Solid)	4230	100.00
Cores, Compression, 6" and 8" Diameter, each	4208	100.00
Cores, Shear, 6" and 8" Diameter, 2 Faces, per core	4209	100.00
Pick-up Prisms 8x8x16-in - within a 40-mile radius of laboratory, each	5013	60.00
Pick-up Prisms 12x8x16 and 16x16x16-n - within a 40-mile radius of laboratory, each	4347	75.00
Mortar & Grout UBC Standard 21-16 & 21-18		
Compression, 2" x 4" Masonry Mortar Cylinder including trimming and capping, each	4214	75.00
Compression, 2" Grout Cubes, ASTM C 109 including sample preparation and capping, each	4215	75.00
Compression, non-standard Grout Cubes, ASTM C 109- Modified 109 including sample prep. /cap., each	4231	75.00
Compression, 3" x 6" Masonry Grout including sample preparation and capping, each	4216	75.00
Transportation and processing Mortar Samples - within a 40-mile radius of laboratory, each	5011	25.00
Transportation and processing Grout Samples - within a 40-mile radius of laboratory, each	5012	25.00
Transportation and processing Grout Cubes - within a 40-mile radius of laboratory, each	5015	25.00
Un-Reinforced Masonry Building Tests		
In-Place Shear (Push) Tests	4809	By Quote
15 Degree Core Shear Tests	4815	By Quote
Wall Anchors	4816	By Quote
Flat Jack Testing	4827	By Quote



Laboratory Testing-Metallurgical

Professional Staff	Activity	Cost
Metallurgical Engineer, per hour	6933	\$ 225.00
Metallurgical Technician, per hour.	6919	125.00
Metallurgical Services		
Test CVN at 75°F (Set of 3 specimens)	6902	168.00
Test CVN at 70°F (Set of 3 specimens)	6903	198.00
Test CVN at 40°F (Set of 3 specimens)	6976	213.00
Test CVN at 30°F (Set of 3 specimens)	6977	219.00
Test CVN at 0°F (Set of 3 specimens)	6978	228.00
Test CVN at 10°F (Set of 3 specimens)	6801	276.00
Test CVN at -20°F (Set of 3 specimens)	6979	297.00
Galvanized Coating - Acid Strip Method, per specimen of plate, and wire	6904	200.00
Stucco Netting, ICC Evaluation, per roll	6912	By Quote
Hardness Tests Brinell, Rockwell (Standard or Superficial), excluding specimen preparation if required	6905	95.00
Chemical Analysis – Ferrous Material of solid piece, each	6920	185.00
Chemical Analysis – Ferrous Material of filings, each	6012	By Quote
Chemical Analysis – Non-Ferrous Material of solid piece, each	6980	By Quote
Chemical Analysis – Non-Ferrous Material of filings, each	6981	By Quote
Evaluate Carbon Equivalent (C.E), each to include chemical analysis of solid piece	6943	195.00
Evaluate Carbon Equivalent (C.E), each to include chemical analysis of filings	6011	By Quote
Microhardness Survey, (includes metallurgical mount & preparation), each	6017	By Quote
Scanning Electron Microscopy (SEM), and EDS, per Hour (min 1 hr)	6913	370.00
Scanning Electron Photomicrographs, each (5" x 4")	6915	8.50
Laboratory NDT Testing (UT, MT, PT)	6112	By Quote
Mileage, per mile	5101	0.80
Administrative Surcharge	4443	5% of Invoice
Mechanical Testing		
Bend Test – Base material	6900	By Quote
Load Tests (Proof Load, Flexural, Stress-corrosion, etc.)	6907	By Quote
Tensile Test – With Electronic Extensometer, excludes sample cutting and specimen preparation, each	6934	90.00
Tensile Test – Square or Round Tube up to 2.00-in. OD, Full size with plugs, ea	6939	265.00
Talbot Test – Sample preparation and test per specimen	6957	250.00
Fastener Testing		
Tensile Test – Anchor Bolts, Studs or Threaded Rods under 100,000 lbf, tested full-size, each	6948	125.00
Tensile Test – Anchor Bolts, Studs or Threaded Rods 100,000-120,000 lbf, tested full-size, each	6958	195.00
Tensile Test – Anchor Bolts, Studs or Threaded Rods up to 1.0-in diam. by machined specimens, each	6959	195.00
Tensile Test – Anchor Bolts, Studs or Threaded Rods, 1.0 - 2.0in diam. by machined specimens, each	6013	205.00
Tensile Test – Anchor Bolts, Studs or Threaded Rods over 2.0-in diam. by machined specimens, each	6014	235.00
Nut – Hardness and Proof Load test under 100,000 lbf, each	6949	38.50
Nut – Hardness and Proof Load test 100,000 – 120,000 lbf, each	6960	47.50
Nut – Hardness In Core Method in lieu of proof Load test above 120,000lbf, each	6015	55.00
Washer – Not Galvanized - Hardness, each	6950	28.00
Washer – Galvanized – Hardness after stripping, each	6016	38.50
Nut –Not Galvanized - Hardness, each	6982	38.50
Nut – Galvanized – Hardness after stripping, each	6983	28.00
Nut Cone Proof Load Test, each	6961	By Quote



Fastener Testing Continued

	Activity	Cost
A325 or A490 – Bolt hardness only, each	6951	\$ 47.50
Bolt A325 or A490 – Wedge Tensile up to 1.0- in diameter, and Hardness, each	6952	98.00
Bolt A325 or A490 – Wedge Tensile up to 1-1/8- in diameter, and Hardness, each	6802	145.00
Bolt A325 or A490 – Wedge Tensile up to 1-1/4- in diameter, and Hardness, each	6803	155.00
Bolt A325 or A490 – Wedge Tensile up to 1-3/8- in diameter, and Hardness, each	6804	165.00
Bolt A325 or A490 – Wedge Tensile up to 1-1/2- in diameter, and Hardness, each	6805	185.00
Bolt A325 or A490 – Tensile test by machined specimens, each	6975	By Quote

Weld Procedure Qualification and Welder Qualification

Welded Fabric Weld shear strength, each sample.	6963	75.00
Guided Weld Bend Test, excluding specimen preparation, each	6927	42.00
Age Bend Specimens – 48 Hrs, up to 3 specimens	6956	140.00
Sample Cut & Perform Weld-Fillet Weld Fracture Test, each	6929	160.00
Weld-Fillet Weld Fracture Test In Sheet Steel & Evaluate, each	6969	130.00
Weld-Macro Etch (Plate)- cut, polish, etch, and evaluate, each	6930	By Quote
Weld-Macro Etch (Rebar # 3 thru # 7) - cut, polish, etch, and evaluate, each	6972	132.00
Weld-Macro Etch (Rebar # 8 thru # 10) - cut, polish, etch, and evaluate, each	6113	145.00
Weld-Macro Etch (Rebar # 11 thru # 14) - cut, polish, etch, and evaluate, each	6973	152.00
Weld-Macro Etch (Rebar # 18) - cut, polish, etch, and evaluate, each	6974	205.00
Weld-Radiography	6931	By Quote
Weld Transverse Tensile Test, plate up to 1.0-in thick excluding machining, each	6932	85.00
Weld Transverse Tensile Test, plate over 1.0-in thick excluding machining, each	6964	205.00
Welded Rebar Transverse Tensile Test, # 3 thru # 7	6965	135.00
Welded Rebar Transverse Tensile Test, # 8 thru # 10	6114	155.00
Welded Rebar Transverse Tensile Test, # 11 thru # 14	6966	185.00
Welded Rebar Transverse Tensile Test, #18.	6967	460.00
Review Welding Procedure Specification (WPS), each	6921	175.00
Prepare Welding Procedure Specification (WPS), each	6922	350.00
WPS, PQR Weld Certificate, each	6971	120.00

Unless otherwise noted, costs above do not include sample preparation.

Sample Preparation

Sample Cut & Machine Specimen – under 1/2-in, each	6910	75.00
Sample Cut & Machine Specimen – 1/2 -inch to 1.0-in, each	6911	90.00
Sample Cut & Machine Specimen - 1.0-in to 1 1/2-inch thick, each	6968	150.00
Sample Cut & Machine Specimen – over 1 1/2-inch 2.0-in thick, each	6984	165.00
Sample Cut & Machine Specimen - over 2.0-in to 2 1/2-inch thick, each	6985	185.00
Sample Cut & Machine Specimen - over 2 1/2-inch 3.0-in thick, each	6986	195.00
Sample Cut & Machine Specimen - over 3.0-in to 3 1/2-inch thick, each	6987	205.00
Sample Cut & Machine Specimen - over 3 1/2-inch thick, each	6988	By Quote
Sample Cut & Machine Charpy V-Notch Specimens (Set of 3 specimens), per set	6909	270.00
Machine and V-Notch one set CVN specimens from Alternate Location	6941	288.00
Machine and V-Notch one set 3 size Specimens	6989	291.00
Machine and V-Notch one set 4 size Specimens	6990	294.00
Machine and V-Notch one set 1/3 size Specimens	6991	303.00
Machine and V-Notch one set 1 size CVN Specimens	6992	315.00
Machine and V-Notch one set 1/4 size CVN Specimens	6993	318.00



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Sample Preparation Continued

	Activity	Cost
Rough cut 'K' from full beam section	6994	\$ 60.00
Rough cut 'K' from T beam section	6995	40.00
Rough cut from 'K' section only	6996	30.00
Rough cut from Flange of full beam section	6997	50.00
Rough cut from Flange of T beam section	6998	30.00
Rough cut other joint configuration	6999	By Quote
Macroetch rough cut sample to locate HAZ, ea	6111	By Quote
Metallurgical Mount, 1-1/4-in. including preparation without evaluation, each	6914	145.00
Metallurgical Mount, 2.0-in. including preparation without evaluation, each	6918	185.00
Add additional piece in mount, each piece	6925	35.00

Administrative Charges

Rush Turnaround, 48 - 72 hours (+50% Surcharge)	6935	+ 50% of invoice
Rush Turnaround, 24 - 48 hours (+100% Surcharge) .	6936	+100% of invoice
Test Report Charge	6110	Minimum 65.00
Same day testing + report (+200% Surcharge)	6937	+ 200% of invoice
Minimum laboratory charge	6923	150.00
Multiple copies for distribution, copies and mailing, per distributor per copy each	6924	4.50
Digital Photographs, photo quality paper, each	9116	8.50
Digital Photographs, photo quality paper, per copy report each	6115	4.50
Metallurgical Technician Travel Time, per hour	6116	By Quote
Misc. Equipment Charge	4416	By Quote
Special Test Set-Up (2-techs+1 engineer crew) per hour	4422	300.00
Special Testing	4420	By Quote
Administrative Office Support	3075	By Quote
Final Report	9111	By Quote



Laboratory Testing-Plastics & Plumbing

Plastic	Activity	Cost
Weatherometer Test, each	4422	By Quote
Plastic Tensile Tests, each .	4425	By Quote
Fixtures		
Plastic Toilet (Water Closet) Seats ..	4532	By Quote
Plastic Water Closet Bowls and Tanks	4533	By Quote
Plastic Lavatories	4534	By Quote
Plastic Urinal Fixtures	4535	By Quote
Plastic Bath tub and Shower units	4536	By Quote
Plastic Sinks	4537	By Quote
Prefabricated Plastic Spa Shells	4538	By Quote
Pipe		
Polyethylene Plastics Pipe and Fittings Materials	4539	By Quote
General Pipe testing	4540	By Quote
Water Closets		
Water Closets.	4500	By Quote
Wall Mounted Water Closets	4501	By Quote
Water Closets Equipped with a Dual Flushing Device	4502	By Quote
Urinals	4503	By Quote
Faucets		
Lawn and Sediment Faucets	4504	By Quote
Pullout Spout Faucets	4505	By Quote
Shower Heads		
Shower head or Body spray	4506	By Quote
High-efficiency Shower head or Body spray	4507	By Quote
Hand Shower	4508	By Quote
High-efficiency Hand Shower	4509	By Quote
Flexible Hose		
Flexible Water Connectors	4510	By Quote
Fittings		
Lavatory and Bar Supply Fittings .	4511	By Quote
Bidet Supply Fitting (with or without a diverter)	4512	By Quote
Kitchen Supply Fitting (Kitchen faucet)	4513	By Quote
Kitchen and Lavatory Supply Fitting (Faucet) with Side spray Diverter	4514	By Quote
Bath or Shower Supply Fitting	4515	By Quote
Bath or Shower Supply Fitting with Diverter	4516	By Quote
Laundry Tub Supply Fitting	4517	By Quote
Metering or Self Closing Supply Fittings	4518	By Quote
Valves and Controls		
Supply stop	4519	By Quote
Kitchen and Lavatory side spray function control	4520	By Quote
Shower head, hand shower, or body spray adjusting mechanisms or function control	4521	
Automatic compensating valve	4522	By Quote
Temperature Actuated Mixing Valves for Hot Water Distribution Systems	4523	By Quote
Automatic Temperature Control Mixing Valves	4524	By Quote
Water Temperature Limiting Devices	4525	By Quote
Atmospheric Type Vacuum Breakers	4526	By Quote
Hose Connection Vacuum Breakers	4527	By Quote
Backflow Preventers with an Intermediate Atmospheric Vent	4528	By Quote
Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection Backflow Preventers	4529	By Quote
Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies	4530	By Quote



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Miscellaneous

	Activity	Cost
Plumbing Water Resistance, each	4541	By Quote
Plumbing Water Resistance Cycling Test	4542	By Quote
Gel Coat Thickness, each	4543	By Quote

Quality Assurance- 3rd Party Audit

Description

Travel time, per hour (Min. may apply).	4456	\$ 75.00
Qualifying Audit, per hour (8 hr. Minimum)	4533	105.00
Technical Director, per hour (Code Meetings)	4534	135.00
Consulting, per hour (Min. may apply)	4535	105.00
Project manager, per hour	4536	105.00
Engineer, per hour	4537	158.00
Per Diem, per day (Greater than 50 miles from Smith Emery Anaheim)	1103	By Quote
Per Diem, per day (Out of Country)	1107	By Quote
Consumable/ Expenses	1104	Cost plus 15%
Manual Review, per hour (6 hr. Minimum).	4539	105.00
Audit Report Fees, per hour (\$150.00 Minimum)	4540	75.00
Annual Listing Fees, (if Applicable)/ or per Quote/ per product model and or series	3098	1,000.00
Mileage, Per Mile	5101	0.80
CA. Admin Fee	4443	5% of Invoice

**Note: 45 days advance notice required for audit cancellation. Audit cancellation Fees apply.
Expenses with applied mark-up and 8 hours Audit prep time if less than 45 days' notice.**

Note: Per Diem is based on rates are set year by U.S. General Services Administration. Current rates in the continental United States ("CONUS Rates") by city, county and state (or ZIP code).



Laboratory Testing-Reinforcement

Reinforcing Steel ASTM A 615/A 706	Activity	Cost
Tensile Test, No. 3 to 8 Bar, each	4600	\$55.00
Bend Test, No. 3 to 8, each	4601	55.00
Tensile Test with MOE, No. 3 to 8 Bar, each	4633	175.00
Tensile Test, No. 9 to 11 Bar, each	4626	80.00
Bend Test, No. 9 to 11 Bar, each	4627	80.00
Tensile Test with MOE, No. 9 to 11 Bar, each	4630	250.00
Tensile Test, No. 14 Bar, each	4602	150.00
Bend Test, No. 14 Bar, each	4634	150.00
Tensile Test with MOE, No. 14 Bar, each	4631	300.00
Tensile Test, No. 18 Bar, each	4603	300.00
Bend Test, No. 18 Bar, each	4635	300.00
Tensile Test with MOE, No. 18 Bar, each	4603	400.00
Tensile Test, No. 20 Bar, each	4632	500.00
High-Strength Steel Bars for Prestressed Concrete ASTM A722, Grade 80		
Tensile Test, No. 24 Bar, each	4636	800.00
Tensile Test, No. 28 Bar, each	4637	1,000.00
Tensile Test, No. 32 Bar, each	4638	1,200.00
Chemical Analysis, each	4616	200.00
Deformation Compliance, each	4617	80.00
Sampling and Tagging at Fabricators Plant (within 40-mile radius from Laboratory, add \$100 for more than 40-miles)		
6:30 a.m. to 4:00 p.m., Monday through Friday - per sample	5005	30.00
Before 6:30 a.m. and after 4:00 p.m. and Saturday - per sample	5006	45.00
Sunday and Holidays - per sample	5007	45.00
*Minimum Sample Charge, per trip	5008	150.00
Transportation and Processing Rebar Samples at Jobsite - within 40-mile radius from Laboratory - per sample	5024	30.00
Reinforcing Steel ASTM A 1035		
Tensile Test, each	4327	By Quote
Bend Test, each	4328	By Quote
Headed Steel Bars for Concrete Reinforcement ASTM A 970		
Tensile Test, No. 11 or smaller, each	4639	150.00
Tensile Test, No. 14, each	4640	200.00
Tensile Test, No. 18, each	4641	350.00
Welded Specimens		
Tensile Test, Welded, No. 11 Bar or Smaller, each	4604	150.00
Tensile Test, Welded, No. 14 Bar, each	4605	200.00
Tensile Test, Welded, No. 18 Bar, each	4606	350.00
Nick Break, Welded Re-Bar, each	4607	125.00
Straightening Hoops	4615	50.00
Coupled Reinforcement		
Tensile Test, Mechanically Spliced Bar, No. 11 Bar or Smaller, each	4612	150.00
Tensile Test, Mechanically Spliced Bar, No. 14 Bar, each	4613	200.00
Tensile Test, Mechanically Spliced Bar, No. 18 Bar, each	4614	350.00
CalTrans Mechanical Coupler Slip Test, No. 11 Bar or Smaller, each	4623	200.00
CalTrans Mechanical Coupler Slip Test, No. 14 Bar, each	4624	250.00
CalTrans Mechanical Coupler Slip Test, No. 18 Bar, each	4625	450.00
CalTrans Mechanical Coupler Slip Test, No. 20 Bar, each	4625	550.00
Post-Tensioning Strand		
Tensile Test and Elongation in 24" for Prestress Strand, ASTM A 416, each	4609	200.00
Tensile Test and Elongation in 10" for Prestressing Wire, ASTM A 421, each	4610	200.00
Modulus of Elasticity (Prestress Strand), each	4611	300.00
Transportation and Processing Post Tension Cables - within a 40-mile radius of laboratory, per sample	5025	30.00
Welded Wire Fabric ASTM A 185		
Parent Material Tensile, 5 required, \$50.00 each	4618	250.00
Weld-Included Tensile, 5 required, \$50.00 each	4619	\$ 250.00



	Activity	Cost
Shear-Weld Area, 5 required, \$50.00 each	4620	\$ 250.00
Bend Test, 5 required, \$40.00 each	4621	200.00
Mesh Evaluation, ASTM C427	4622	575.00

Laboratory Testing-Soil

Soil Properties

California Impact, CAL 216, each	7018	150.00
Classification of Soil for Engineering Purposes, ASTM D2487	7136	350.00
Moisture Density-Chunk Density, In-Situ, ASTM D2937, each	7555	50.00
Moisture Density-Drive Tube Density, In-Situ, each	7137	50.00
Corrosivity: Resistivity, pH, Sulfates, Chlorides, each	7020	By Quote
Material Finer - #200 Sieve, ASTM D 1140/C 117, each	7110	50.00
Moisture, ASTM D2216, each	7111	25.00
Moisture (microwave), ASTM D4643, each	7019	15.00
Moisture-Density Relations of Soils, ASTM D1557, Method A each	7113	135.00
Moisture-Density Relations of Soils, ASTM D1557, Method B or C each	7114	145.00
M/D Curve Rock Correction	7138	100.00
Moisture-Density Check Point, each	7135	50.00
"R" (Resistance) Value, Lime Treated or Requiring Recombining, each	7120	250.00
"R" (Resistance) Value, Calif. 301, ASTM D 2844, each	7119	225.00
Relative Density (max/min) D 4254, each	7534	By Quote
Sieve Analysis of Combined Fine and Coarse, ASTM D-422, each	7124	200.00
Sieve and Hydrometer Analysis, ASTM D 422, each	7109	270.00
Sieve Analysis, fines for sieves #4 to #200 ASTM D 422, each	7139	125.00
Specific Gravity for Soils, ASTM D 854, each	7127	120.00

Foundation Testing

Atterberg Limits, (LL, PI) ASTM D 4318, each	7100	175.00
Atterberg Shrinkage Limit, ASTM D 4318, each	7099	150.00
California Bearing Ratio, ASTM D 1883, set	7130	450.00
Collapse Potential, each	7559	By Quote
Consolidation Test, ASTM D 2435, each	7102	200.00
Consolidation Time/Rate Curves, each	7103	50.00
Remolding of Samples, each	7104	30.00
Direct Shear Test, ASTM D 3080:		
Consolidated, Drained 1 Point, each	7107	125.00
Consolidated, Undrained 1 Point, each	7106	100.00
Unconsolidated, Undrained, 1 Point, each	7105	100.00
Remolding of Samples, each	7104	30.00
Expansion Index, UBC-18-2, ASTM D 4829, each	7108	130.00
Permeability, Constant Head, ASTM D 2434, CAL 220, each	7116	225.00
Permeability, Falling Head, CAL 220, each	7117	225.00
Triaxial Unconsolidated, Undrained, ASTM D 2850, each	7132	By Quote
Unconfined Compression Test, ASTM D 2166, each	7129	70.00
Unconfined Compression Test with Graph, ASTM D 2166, each	7134	120.00

Peat Moss

Loss on Ignition, ASTM D 2974 each	7040	75.00
Bulk Specific Gravity, ASTM D 4531, each	7041	45.00
Classification, ASTM D 4427, each	7038	200.00
pH, ASTM D 2976, each	7043	45.00
Absorption, ASTM D 2980, each	7044	20.00

A Rush Charge of 3 to 4 times of the unit cost applies to the following tests for same-day results before 2 pm:

- ASTM D1557, Method A
- ASTM C136
- ASTM C117, ASTM D1140
- ASTM C29 (Unit Weightonly)



Laboratory Testing - Structural Testing

Testing Machines	Activity	Cost
20,000 to 120,000 Pound Machine (Universal), including set-up time, per hour	4400	\$ 190.00
440,000 Pound Machine (Universal), including set-up time, per hour	4401	220.00
600,000 Pound Machine (Compression only), including set-up time, per hour	4402	270.00
1,100,000 Pound Machine (Universal), including set-up time, per hour	4462	850.00
600,000 Pound Machine (Compression only), including set-up time, per hour	4500	270.00
120,000 Pound Machine (Instron), including set-up time, per hour	4501	290.00
450,000 Pound Machine (Instron), including set-up time, per hour	4502	390.00
Special Load Tests Up (2-techs+1 engineer crew), per hour	4405	450.00
Special Test Set-Up (2-techs+1 engineer crew), per hour	4422	400.00
Manhole Cover and Tree Grate Tests, (L.A. City)		
Static Loading, 22-inch diameter or smaller, each	4423	150.00
Static Loading, greater than 22-inches and less than 36-inches in diameter, each up to 400k lbs.	4557	200.00
Static Loading, greater than 36-inches in diameter, each up to 400k lbs.	4558	300.00
Weight of Manhole Samples, each	4424	50.00
Cyclic Loading, each (3-5 cycles) up to 22-inches in diameter	4732	300.00
Cyclic Loading, each (10 cycles)	4468	550.00
Cyclic Loading, each (3-5 cycles)	4730	400.00
L.A City S-601, each ASTM D2486	4731	850.00
Mechanical Testing Services		
Tensile Test -- No Strain Measurement, Yield by Halt of Dial, no report included		
Up to 100,000 lb., each	4411	75.00
100,001 to 200,000 lb., each	4412	100.00
200,001 to 400,000 lb., each	4410	250.00
Greater than 400,000 lb., each	4140	450.00
Strain Gauge Testing	4418	By Quote
Special Testing, Load Tests, Flexural, Bend, Impact, Axial, Racking Shear	4420	By Quote
Tensile Test -- Mechanical Non-Printout Extensometer for Strain, each	4432	50.00
Tensile Test -- Electronic Extensometer with Recorded Printout, 1 test	4433	150.00
Mechanical Bend Test, each	4141	75.00
Machining and Preparation of Samples (shop) per hour	4142	400.00
Monotonic test including strain gauge, each	4559	375.00
Structural Testing		
*General Structural Monotonic Testing		
Diaphragm Set-up, per Hour	4703	350.00
Diaphragm test, each	4479	3,000.00
Monotonic Shear Wall Set Up, per Hour	4704	250.00
Monotonic Shear Wall test, each	4556	2,500.00
* General Low Cyclic/ Fatigue Testing - < 1,000 cycles – Components or Assemblies		
Cyclic Set-up, per Hour	4705	450.00
Cyclic Shear Wall Test, each	4438	3,500.00
Cyclic AC133 or similar Test, each	4706	650.00
Cyclic FM1950 or similar Test, each	4707	850.00
*General High Cyclic/ Fatigue Testing - > 1,000 cycles, up to 0.5 Hz		
Cyclic Set-up, per Hour	4143	600.00
Cyclic Shear Wall Test, per hour	4144	650.00
* ASTM E72 Test or Similar (Including DAQ) – Walls Up to 15-ft high		
ASTM E72 or similar Set-up, per Hour	4708	275.00
Compression or similar Test, each	4709	3,000.00
Flexural or similar Test, each	4710	2,000.00
Flexural and Compression or similar Test, each	4711	2,500.00
Static/ Shear or similar Test, each	4712	1,800.00
* Permanent Railing Systems, Guards, and Balustrades ASTM E935		
Load Test , each	4733	500.00

*Note : *Prices subject to change depending of complexity of sample*



	Activity	Cost
*ICC-ES AC166 Test or Similar (including DAQ) – Diaphragm Up to 20-ft by20-ft		
ICC-ES- AC166 or similar Set-up, per Hour	4713	\$ 450.00
Roof Diaphragm or similar Test, each	4714	3,000.00
Wind Driven Rain or similar Test, each	4715	4,000.00
Moment Frame Connection or similar Set-up, per Hour	4560	400.00
Moment Frame Connection or similar Test, Each	4555	400.00
Component Compression or similar Set-up, per Hour	4561	350.00
Component Compression or similar Test, each	4440	700.00
Component Shear or similar Set-up, per Hour.	4562	400.00
Component Shear or similar Test, each	4441	1,000.00
Component Flexural or similar Set-up, per Hour	4563	350.00
Component Flexural or similar Test, each	4442	700.00
Uniform Load or similar Set-up, per Hour	4564	500.00
Uniform Load or similar Test, each	8108	1,500.00
Hydrostatic Testing or similar Set-up, per Hour	4565	500.00
Hydrostatic Testing or similar Test, each	4429	1,500.00
Testing for Coatings used in Slip-Critical Bolted Connections		
Slip Coefficient Test (RCSC + 5 tests), per set of 3 tests	4570	4,250.00
Tension Creep Test (RCSC + 3 tests), per set of 3 tests	4571	5,250.00
Geogrid Testing		
Connection Testing, NCMA Test Method SRWU-1, each	4444	350.00
Shear Strength Testing, NCMA Test Method SRWU-1, each	4445	350.00
Product Evaluation Services		
ICC ES Product Evaluation Services.	4446	By Quote
CISCA Product Evaluation Services	4447	By Quote
AAMA Product Evaluation Services	4448	By Quote
ATC 24, FEMA 350, FEMA 450 Product Evaluation Services	4449	By Quote
Product Consulting Services		
Code Consulting or similar, per hour	3095	175.00
ICC ES/IAS Fabricator Quality Assurance Services, per hour	3090	175.00
Uniform ES and ICC ES Product Consulting Services	3091	By Quote
IAPMO Product Consulting Services	3092	By Quote
AAMA Product Consulting Services.	3093	By Quote
ATC 24, FEMA 350, FEMA 450 Product Consulting Services	3094	By Quote
Test Procedure/Protocol Elaboration, per hour	4150	150.00
General Structural Field Testing		
Special Sampling at fabrication plant, per hour	4151	150.00
Special field test setup (2-Techs + 1 Engineer Crew), per hour	4152	450.00
Special field load test (2-Techs + 1 Engineer Crew), per hour	4153	525.00
Computer DAQ/Amplifiers, per hour	4154	120.00
Load Cell or transducer, per hour	4155	50.00
Mileage, per mile	5101	0.80

Note: * Prices subject to change depending of complexity of sample

Geotechnical and Environmental Services

Professional Staff (Geotechnical Engineers, Geologists, Staff Specialist)		
Professional, per hour	7207	150.00
Senior Professional, per hour.	7206	185.00
Project Manager, per hour	7205	110.00
Project Professional, per hour	7204	120.00
Staff Professional, per hour	7203	115.00
Principal Professional, per hour	7202	150.00
Certified Geologist, per hour	7218	By Quote
Senior Principal Professional, per hour	7201	185.00
Expert Witness, per hour	7200	By Quote



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	Activity	Cost
Office Support, per hour	7209	\$ 35.00
Word Processor, per hour	7219	40.00
Illustrator, per hour	7208	45.00
QSP "Qualified SWPPP Practitioner", per hour	7231	120.00
Field Staff		
Field Technician, Laboratory and Field with density equipment, Regular Time, per hour	7212	105.00
Environmental Technician, Regular Time, per hour	7240	105.00
CalTrans Certified Technician with density equipment, Regular Time, per hour	7274	105.00
Supervising Technician, Laboratory and Field with density equipment, Regular Time, per hour	7214	110.00
Soils Deputy Grading, or ICC Soils Inspector, Regular Time, per hour	7563	125.00
Geotechnical Minimums		
Show-up time, no work performed		2-hour minimum charge
Field Service Calls		4 and 8-hour minimum charge
Field Soils Work		a minimum of 1 hour per week engineering supervision may be charged
Overtime		
Monday through Friday, Over 8 Hours or after 4:00 p.m.; Saturday, 1 to 12 Hours	7222	time and one-half
Sundays and Holidays, 1 to 8 Hours	7222	time and one-half
Monday through Saturday, Over 12 Hours; Sundays and Holidays, Over 8 Hours	7232	double time
Administrative Charges		
Pick-Up/Delivery, per hour (2-hours minimum)	7215	55.00
Mileage, per mile	7313	0.80
Travel Time, per hour	7235	55.00
Facsimile, per page	7315	1.00
Reproduction, per page	7225	1.50
Report Surcharge, per copy	7317	50.00
Cellular Telephone, per day	7319	35.00
Air Express/Over-night Delivery, each	7325	35.00
Contracted Services-Drilling	7300	By Quote
Contracted Services-Testing	7301	By Quote
Contracted Services-Expenses	7303	By Quote
Foundation/Geological Investigations		
Geotechnical Field Exploration	7308	By Quote
Final Report of Compacted Fill (submitted at end of project, if required)	7305	By Quote
Support Equipment Foundation/Geological Investigations		
Nuclear Density Gage, per day	7327	Field Staff
Sand Cone Kit, per day	7328	Field Staff
Soil Sampling:		
Encore Sample Container, per container	7125	25.00
Tubes and Rings, per sample	7122	15.00

Laboratory Testing - Chemical

Environmental Investigations and Reports

Site Assessments Phase I	7306	By Quote
Site Assessments Phase II	7307	By Quote
*Property Condition Report	7323	2,000.00
Tank Removal/Closure Report	7326	By Quote
Groundwater Sampling Report	7329	By Quote
Import/Export Soil Testing	7334	By Quote
Report Preparation	7340	By Quote
Health and Safety Plan	7320	350.00
Soil Vapor Survey	7321	By Quote
Sampling Equipment		
Sample Jars, each	7335	25.00



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Tedlar Bags Nylaflow, each .

Activity	Cost
7336	\$ 25.00
7337	75.00

Coring, each

*Note: * price might be higher depending of the property size/complexity*

Support Equipment Environmental

Air Monitoring Equipment, per day	7216	125.00
Magnetometer Equipment, per day	7309	100.00
Water Pump and Generator, per day	7311	150.00
Water Monitoring Equipment	7316	50.00

Health Safety Equipment

Level A, per Person	7227	By Quote
Level B, per Person, per day, plus hourly rate	7228	By Quote
Level C, per Person, per day, plus hourly rate	7229	75.00
Health and Safety Supplies, per day	7217	150.00

Administrative Charges

Manager, Supervisor, or Consultant, per hour	6409	By Quote
Chemist, per hour	6406	By Quote
Clerical Assistant, per hour	6432	By Quote
Calculation Charge	6403	By Quote
Report Preparation Charge	6418	By Quote
Sample Preparation.	6424	By Quote
Sample Composite, per sample	6425	By Quote
Sample Disposal	6421	By Quote
Sample Transport, per hour	6427	By Quote
Shipping Charges	6433	By Quote
Equipment Rental	6435	By Quote
Photography	6420	By Quote
Standard Report/QC Package	6511	By Quote
Diskette Surcharge	6512	By Quote
EDF Surcharge	6513	By Quote
NEESA, Army Corps of Engineers, CLP, Etc., Surcharge	6514	By Quote

Field Sampling

Technician. Per hour	6430	By Quote
Mileage, per mile	6415	By Quote
Automatic Composite Sampler, per 24-hours	6400	By Quote
Discharge Flow Measurement, each	6412	By Quote

Supplies

5035 Encore (5g), each	6533	By Quote
5035 Sampling Tool, each	6435	By Quote
5035 Easy Draw	6534	By Quote
Sample Containers	6434	By Quote

Rush Analyses

Rush Surcharge, 72 Hours	6535	By Quote
Rush Surcharge, 48 Hours	6540	By Quote
Rush Surcharge, 24 Hours	6530	By Quote
Rush Surcharge, Same Day	6545	By Quote

Laboratory Tests – Inorganic Chemistry

Organic Analyses

EPA 1664 TRPH	6201	By Quote
EPA 1664 Oil and Grease	6236	By Quote
Oil & Grease, Floatable	6237	By Quote
EPA 418.1 TRPH	6258	By Quote
EPA 8015B TPH-Gasoline	6268	By Quote
EPA 8015B TPH-Diesel	6269	By Quote
EPA 8015B TPH-Gasoline and Diesel	6267	By Quote
LUFT – Gasoline and Diesel	6210	By Quote



	Activity	Cost
EPA 8015B TPH-Hydrocarbon Range	6263	By Quote
EPA 8015B Methanol/Ethanol	6264	By Quote
EPA 602 or 8021B BTEX	6202	By Quote
EPA 8015B/8021B Combination-Gasoline	6203	By Quote
EPA 624 / 8260B Volatile Organics	6250	By Quote
EPA 524 Volatile Organics	6249	By Quote
EPA 625 or 8270C Extractable Organics	6216	By Quote
EPA 608 or 8082 PCBs Water or Soil	6242	By Quote
EPA 8082 PCBs Oil	6244	By Quote
EPA 608 or 8081A Chlorinated Pesticides	6206	By Quote
EPA 608 or 8082 / 8081A PCBs and Pesticides	6243	By Quote
Flash Point	6218	By Quote
Petroleum Analysis	6246	By Quote
Identification/Interpretation of Spectrum/Fingerprint	6260	By Quote
EPA 5035 or 5030, 8260B Gasoline and Volatile Organics	6204	By Quote
EPA 8270 SIM - Polycyclic Aromatic Hydrocarbons (PAHs)	6205	By Quote
EPA 8260 - Soil Vapor (CHHSL)	6208	By Quote
Ambient/Indoor/Outdoor Air	6211	By Quote
Mobile Laboratory Services		
Mobile Lab per 10 hour weekday	6460	By Quote
Mobile Lab per 10 hour weekend	6465	By Quote
Mobile Lab hours in excess of 10 hours	6461	By Quote
Mobilization fee	6467	By Quote
Mobile Lab Standby Time	6439	By Quote
Mobile Lab Cancellation	6468	By Quote
Inorganic Analyses - Wet Chemistry		
Alkalinity	6001	By Quote
Ammonia, Direct	6002	By Quote
Ammonia, Distillation	6004	By Quote
Anions (F, Br, Cl, NO ₃ , NO ₂ , SO ₄ , PO ₄)	6003	By Quote
Biochemical Oxygen Demand (BOD)	6006	By Quote
Chemical Oxygen Demand (COD)	6008	By Quote
Chloride, Argentometric	6012	By Quote
Chlorine, Residual	6014	By Quote
Color	6016	By Quote
Conductance	6018	By Quote
Cyanide Amenable *(surcharge to Total cyanide)	6022	By Quote
Cyanide Free	6024	By Quote
Cyanide, Total	6028	By Quote
Cyanide, Reactive	6026	By Quote
Hardness	6050	By Quote
Mercaptans	6070	By Quote
Nitrogen, Kjeldahl	6082	By Quote
Oxygen, Dissolved	6096	By Quote
pH, Aqueous	6102	By Quote
pH, Non-aqueous	6100	By Quote
Parr Oxygen Bomb	6098	By Quote
Phosphorous	6097	By Quote
Perchlorate	6099	By Quote
Phenols	6104	By Quote
Salinity - NaCl	6148	By Quote
Solids, Total Dissolved	6132	By Quote
Solids, Settleable	6126	By Quote
Solids, Suspended	6128	By Quote
Solids, Total	6130	By Quote
Solids, Volatile	6031	By Quote
Sulfide, Dissolved	6138	By Quote
Sulfide, Reactive	6140	By Quote
Sulfide, Total	6142	By Quote



Southern California Area
Effective 7/01/18

	Activity	Cost
Sulfate, Gravimetric	6134	By Quote
Surfactants, MBAS	6150	By Quote
Thiosulfate	6158	By Quote
Turbidity	6174	By Quote
Water by Karl Fischer titration	6272	By Quote
Construction Materials Analysis	6020	By Quote
Metals Preparation		
Digestion, Aqueous	6030	By Quote
Digestion, Nonaqueous	6032	By Quote
STLC Extraction	6036	By Quote
EP-Tox	6034	By Quote
TCLP Extraction	6154	By Quote
VOC Extraction ZHE, (STLC and/or TCLP)	6155	By Quote
Metals Analysis		
Calcium Oxide	6168	By Quote
Individual Metals, per element	6072	By Quote
Low Level Hexavalent Chromium	6073	By Quote
Hexavalent Chromium	6052	By Quote
Trivalent Chromium	6403	By Quote
Iron (Ferrous)	6404	By Quote
Total Lead	6069	By Quote
Lead in Paint	6068	By Quote
Metals Group Determinations		
TTLIC CAM Metals	6162	By Quote
STLC CAM Metals	6160	By Quote
RCRA Metals	6118	By Quote
Priority Pollutant Metals	6112	By Quote
Drinking Water Analysis Metals	6067	By Quote
TAL Metals (23)	6071	By Quote
Outside Laboratory Services		
Asbestos Analysis	6300	By Quote
Misc. Analyses	6344	By Quote
1, 4 -Dioxane	6345	By Quote
EPA 8310 PAHS	6346	By Quote
EPA 504 EDB	6224	By Quote
Organophosphorus Pesticides	6209	By Quote
Total Organic Carbon	6254	By Quote
Biotoxicity, aqueous	6500	By Quote
Biotoxicity, nonaqueous	6505	By Quote
Coliform, total	6515	By Quote
Coliform, fecal	6516	By Quote
EPA 8151A Chlorinated Herbicides	6207	By Quote
Total Organic Carbon	6254	By Quote
FDA Testing of Lead and Cadmium, Proposition 65		
FDA Testing of Lead and Cadmium, Proposition 65	6038	By Quote
VOC Testing		
EPA 24 – VOC per AQMD	6266	By Quote



Administrative Fees

On occasion we are asked to perform administrative services outside of our normal business activity. Under these circumstances, such services will be billed at the rates below. These services will be performed only at the request of the client.

Administrative	Activity	Cost
Administrative Support	4443	5% of Invoice
*Report Charge, per report, per copy	9110	\$ 1.75
Final Report	9111	By Quote
General Testing-Rush Charges	4812	50%
*Generally for Compression Testing of Concrete, Base Plate Grout, Masonry Mortar and Grout, as well as Tension and Bend Testing of Reinforcing Steel.		
Administrative Services - Laboratories		
Administrative Support for Special Projects, Certified Payroll/ Labor Compliance	3074	135.00
Administrative Office Support	3075	By Quote
Task Tracking	3076	65.00
Report Surcharge, per copy	3077	50.00
Report Copy Charge, per sheet	3078	2.75
Reproduction, per page	3079	1.50
File Retrieval, per file	3080	50.00
Insurance, Extra Charges as ordered by Client	3081	By Quote
Processing Certificates, Affidavits, & Notary Services, each	3082	25.00
Shipping Charges	3084	At Cost
Air Express/Delivery, each	3085	Cost + 25%
Contracted Services	3087	Cost + 25%
Minor Report Revision, minimum	3089	25.00

TL-0111 LIVE Version

CALIFORNIA DEPARTMENT OF TRANSPORTATION*Presents this***CERTIFICATE**

to

Carlos Lievanos**who is certified to perform the following tests:**

Test Method	Expiration Date	IA Responsible	Associated Laboratory
CT 105	2019 2017-10-11	Brandt Houchen	Lab 1
CT 201	2019 2017-10-11	Brandt Houchen	Lab 1
CT 202	2019-10-11	Brandt Houchen	Lab 1
CT 216	2019-10-11	Brandt Houchen	Lab 1
CT 217	2019-10-11	Brandt Houchen	Lab 1
CT 226	2019-10-11	Brandt Houchen	Lab 1
CT 231	2019-10-11	Brandt Houchen	Lab 1
CT 301	2019-07-10	Brandt Houchen	Lab 1
CT 304	2019-07-10	Brandt Houchen	Lab 1
CT 308	2019-07-10	Brandt Houchen	Lab 1
CT 366	2019-07-10	Brandt Houchen	Lab 1
CT 382	2019-07-10	Brandt Houchen	Lab 1
CT 521	2020-04-17	Chad Claxton	Lab 1
CT 523	2020-04-17	Chad Claxton	Lab 1

Lab 1: Smith Emery Laboratories

A handwritten signature in black ink, appearing to be 'C. Lievanos', written over a horizontal line.

Certified Independent Assurance (IA)

Date of download: 04/19/2018

Note: This certificate is valid as long as the Tester complies with applicable requirements in Caltrans' Independent Assurance Program Manual.

TL-0111 (REV. 06/00)

CALIFORNIA DEPARTMENT OF TRANSPORTATION

Presents this

CERTIFICATE OF PROFICIENCY

to

Carlos Lievanos

(Print Name)

Smith-Emery Laboratories

(Print Agency)



who is qualified to perform the following tests:

CTM 309 - AC Theoretical SG

05/20

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Test Methods & Expirations

Test Methods & Expirations

Afsaneh Ostovar

AFSANEH OSTOVAR I.A.# 096
Certified Independent Assurance (IA)

Date Issued: May 25, 2018

Note: This certificate is valid as long as the Tester complies with applicable requirements in Caltrans Independent Assurance Program Manual.



Tester Information for Patrick Dunne

Tester Details

Basic Information

First Name	Patrick
Last Name	Dunne
Status	Active

[Print Certificates](#)

Associated Labs

Total 1 item.

Lab Name	Manager Name	Full Address	District	Page Alias
Smith Emery - Anaheim	Robert Greeley	1185 N. Tustin Ave., Anaheim, CA 92807	12	Lab 1

Test Methods

California Test (CT) Certifications

Total 12 items.

Test Method	Expiration Date	Status	IA Responsible	Within Lab(s) Scope	Comments
CT 125 GEN Sampling - GENERAL	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 231 Relative Compaction - Nuclear Gage	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 375 AC Density by Nuclear Gage	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 604 Air Content of PCC - Pressure Method (JTCP - PCC)	2021-11-12	Active	Richard Hibbard	Lab 1	(No comments)
CT 618 Unit Weight - PCC (JTCP - PCC)	2021-11-12	Active	Richard Hibbard	Lab 1	(No comments)
CT 639 Sampling Fresh Concrete (JTCP - PCC)	2021-11-12	Active	Richard Hibbard	Lab 1	(No comments)
CT 640 Making Cylinders - PCC (JTCP - PCC)	2021-11-12	Active	Richard Hibbard	Lab 1	(No comments)
CT 643 Air Content of PCC - Volumetric Method (JTCP - PCC)	2021-11-12	Active	Richard Hibbard	(No lab)	(No comments)
CT 556 Slump - PCC (JTCP - PCC)	2021-11-12	Active	Richard Hibbard	Lab 1	(No comments)
CT 557 Temperature - PCC (JTCP - PCC)	2021-11-12	Active	Richard Hibbard	Lab 1	(No comments)
CT 125 AGG Sampling - AGGREGATES (JTCP - HMA I / S&A)	2022-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 126 HMA Sampling - HMA (JTCP - HMA I)	2022-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)

AASHTO/ASTM Proficiencies

Test Method	Expiration Date	Status	IA Responsible	Within Lab(s) Scope	Comments
No results found.					



Tester Information for Leonard Robertson

Tester Details

Basic Information

First Name	Leonard
Last Name	Robertson
Status	Active

[Print Certificates](#)

Associated Labs

Total 1 item.

Lab Name	Manager Name	Full Address	District	Page Alias
Smith Emery - Anaheim	Robert Greeley	1195 N. Tustin Ave., Anaheim, CA 92807	12	Lab 1

Test Methods

California Test (CT) Certifications

Total 18 items.

Test Method	Expiration Date	Status	IA Responsible	Within Lab(s) Scope	Comments
CT 621 Compressive Strength - PCC	2019-04-23	Expired	Chad Claxton	Lab 1	(No comments)
CT 623 Flexural Strength - PCC	2019-04-23	Expired	Chad Claxton	Lab 1	(No comments)
CT 624 Flexural Strength of Rapid Strength - PCC	2019-04-23	Expired	Chad Claxton	Lab 1	(No comments)
CT 126 ADMIX Sampling - ADMIXTURE	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 126 BIT Sampling - BITUMINOUS	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 126 GEN Sampling - GENERAL	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 126 PCC Sampling - PCC	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 231 Relative Compaction - Nuclear Gage	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 375 AC Density by Nuclear Gage	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 504 Air Content of PCC - Pressure Method (JTCP - PCC)	2022-01-14	Active	Jasdeep Sandhu	Lab 1	(No comments)
CT 518 Unit Weight - PCC (JTCP - PCC)	2022-01-14	Active	Jasdeep Sandhu	Lab 1	(No comments)
CT 539 Sampling Fresh Concrete (JTCP - PCC)	2022-01-14	Active	Jasdeep Sandhu	Lab 1	(No comments)
CT 540 Making Cylinders - PCC (JTCP - PCC)	2022-01-14	Active	Jasdeep Sandhu	Lab 1	(No comments)
CT 543 Air Content of PCC - Volumetric Method (JTCP - PCC)	2022-01-14	Active	Jasdeep Sandhu	(No lab)	(No comments)
CT 556 Slump - PCC (JTCP - PCC)	2022-01-14	Active	Jasdeep Sandhu	Lab 1	(No comments)
CT 557 Temperature - PCC (JTCP - PCC)	2022-01-14	Active	Jasdeep Sandhu	Lab 1	(No comments)
CT 125 AGG Sampling - AGGREGATES (JTCP - HMA I / S&A)	2022-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 125 HMA Sampling - HMA (JTCP - HMA I)	2022-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)

AASHTO/ASTM Proficiencies

Test Method	Expiration Date	Status	IA Responsible	Within Lab(s) Scope	Comments
No results found.					



Tester Information for Marcos Campos

Tester Details

Basic Information

First Name	Marcos
Last Name	Campos
Status	Active

[Print Certificates](#)

Associated Labs

Total 1 item.

Lab Name	Manager Name	Full Address	District	Page Alias
Smith Emery - Anaheim	Robert Greeley	1195 N. Tustin Ave., Anaheim, CA 92807	12	Lab 1

Test Methods

California Test (CT) Certifications

Total 16 items.

Test Method	Expiration Date	Status	IA Responsible	Within Lab(s) Scope	Comments
CT 125 ADMIX Sampling - ADMIXTURE	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 125 BIT Sampling - BITUMINOUS	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 125 GEN Sampling - GENERAL	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 125 PCC Sampling - PCC	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 231 Relative Compaction - Nuclear Gage	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 376 AC Density by Nuclear Gage	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 604 Air Content of PCC - Pressure Method (JTCP - PCC)	2022-01-14	Active	Richard Hibbard	Lab 1	(No comments)
CT 518 Unit Weight - PCC (JTCP - PCC)	2022-01-14	Active	Richard Hibbard	Lab 1	(No comments)
CT 539 Sampling Fresh Concrete (JTCP - PCC)	2022-01-14	Active	Richard Hibbard	Lab 1	(No comments)
CT 540 Making Cylinders - PCC (JTCP - PCC)	2022-01-14	Active	Richard Hibbard	Lab 1	(No comments)
CT 543 Air Content of PCC - Volumetric Method (JTCP - PCC)	2022-01-14	Active	Richard Hibbard	(No lab)	(No comments)
CT 556 Slump - PCC (JTCP - PCC)	2022-01-14	Active	Richard Hibbard	Lab 1	(No comments)
CT 557 Temperature - PCC (JTCP - PCC)	2022-01-14	Active	Richard Hibbard	Lab 1	(No comments)
CT 125 AGG Sampling - AGGREGATES (JTCP - HMA I / S&A)	2022-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 125 HMA Sampling - HMA (JTCP - HMA I)	2022-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)

AASHTO/ASTM Proficiencies

Test Method	Expiration Date	Status	IA Responsible	Within Lab(s) Scope	Comments
No results found.					



Tester Information for Myles Lutes

Tester Details

Basic Information

First Name	Myles
Last Name	Lutes
Status	Active

[Print Certificates](#)

Associated Labs

Total 1 item.

Lab Name	Manager Name	Full Address	District	Page Alias
Smith Emery - Anaheim	Robert Greeley	1195 N. Tustin Ave., Anaheim, CA 92807	12	Lab 1

Test Methods

California Test (CT) Certifications

Total 7 items.

Test Method	Expiration Date	Status	IA Responsible	Within Lab(s) Scope	Comments
CT 504 Air Content of PCC - Pressure Method (JTCP - PCC)	2022-06-17	Active	Richard Hibbard	Lab 1	(No comments)
CT 518 Unit Weight - PCC (JTCP - PCC)	2022-06-17	Active	Richard Hibbard	Lab 1	(No comments)
CT 539 Sampling Fresh Concrete (JTCP - PCC)	2022-06-17	Active	Richard Hibbard	Lab 1	(No comments)
CT 540 Making Cylinders - PCC (JTCP - PCC)	2022-06-17	Active	Richard Hibbard	Lab 1	(No comments)
CT 543 Air Content of PCC - Volumetric Method (JTCP - PCC)	2022-06-17	Active	Richard Hibbard	(No Lab)	(No comments)
CT 558 Slump - PCC (JTCP - PCC)	2022-06-17	Active	Richard Hibbard	Lab 1	(No comments)
CT 557 Temperature - PCC (JTCP - PCC)	2022-06-17	Active	Richard Hibbard	Lab 1	(No comments)

AASHTO/ASTM Proficiencies

Test Method	Expiration Date	Status	IA Responsible	Within Lab(s) Scope	Comments
No results found.					

For concerns with missing or erroneous data, please contact your Independent Assurance personnel



Tester Information for Brian Wren

Tester Details

Basic Information

First Name	Brian
Last Name	Wren
Status	Active

[Print Certificates](#)

Associated Labs

Total 1 item.				
Lab Name	Manager Name	Full Address	District	Page Alias
Smith Emery - Anaheim	Robert Greeley	1195 N. Tustin Ave., Anaheim, CA 92807	12	Lab 1

Test Methods

California Test (CT) Certifications

Total 9 items.						
Test Method	Expiration Date	Status	IA Responsible	Within Lab(s) Scope	Comments	
CT 216 Relative Compaction - Soils and Aggregates (JTCP - S&A)	2014-10-30	Expired	John Warrick	Lab 1	(No comments)	
CT 217 Sand Equivalent (JTCP - S&A)	2014-10-30	Expired	John Warrick	Lab 1	(No comments)	
CT 504 Air Content of PCC - Pressure Method (JTCP - PCC)	2023-03-17	Active	Biplab Bhattacharya	Lab 1	(No comments)	
CT 518 Unit Weight - PCC (JTCP - PCC)	2023-03-17	Active	Biplab Bhattacharya	Lab 1	(No comments)	
CT 639 Sampling Fresh Concrete (JTCP - PCC)	2023-03-17	Active	Biplab Bhattacharya	Lab 1	(No comments)	
CT 540 Making Cylinders - PCC (JTCP - PCC)	2023-03-17	Active	Biplab Bhattacharya	Lab 1	(No comments)	
CT 543 Air Content of PCC - Volumetric Method (JTCP - PCC)	2023-03-17	Active	Biplab Bhattacharya	(No lab)	(No comments)	
CT 556 Slump - PCC (JTCP - PCC)	2023-03-17	Active	Biplab Bhattacharya	Lab 1	(No comments)	
CT 557 Temperature - PCC (JTCP - PCC)	2023-03-17	Active	Biplab Bhattacharya	Lab 1	(No comments)	

AASHTO/ASTM Proficiencies

Test Method	Expiration Date	Status	IA Responsible	Within Lab(s) Scope	Comments
No results found.					

For concerns with missing or erroneous data, please contact your Independent Assurance personnel



Tester Information for Edward Campos

Tester Details

Basic Information

First Name	Edward
Last Name	Campos
Status	Active

[Print Certificates](#)

Associated Labs

Total 1 Item.

Lab Name	Manager Name	Full Address	District	Page Alias
Smith Emery - Anaheim	Robert Greeley	1195 N. Tustin Ave., Anaheim, CA 92807	12	Lab 1

Test Methods

California Test (CT) Certifications

Total 2 Items.

Test Method	Expiration Date	Status	IA Responsible	Within Lab(s) Scope	Comments
CT 521 Compressive Strength - PCC	2019-07-08	<input checked="" type="checkbox"/> Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 523 Flexural Strength - PCC	2019-11-09	<input checked="" type="checkbox"/> Active	Afsaneh Ostovar	Lab 1	(No comments)

AASHTO/ASTM Proficiencies

Test Method	Expiration Date	Status	IA Responsible	Within Lab(s) Scope	Comments
No results found.					

ⓘ For concerns with missing or erroneous data, please contact your Independent Assurance personnel

**Education**

University of California,
Berkeley

M.S. Geotechnical
Engineering

University of California,
Berkeley

B.S. Civil Engineering

Years with Smith-Emery
42 Years

Certifications

Registered Professional
Engineer, Civil
#25270

Patents

Mr. Partridge is the co-inventor of earthquake resistant structural steel connections (SSDA) and holds 2 United States and 22 Foreign Patents. All of the related full-scale moment frame testing was performed at Smith-Emery.

James Partridge, PE

Principal-In-Charge

Mr. Partridge has over 40 years of technical experience including the last 20 years as Owner and President of Smith-Emery Company. Mr. Partridge is responsible for the direction, overall technical competency and the quality control of four certified laboratories, 20 plus professionals and over 175 inspectors in the fields of Materials Testing, Geotechnical, Environmental, Chemical, Metallurgical and Special Inspection.

Selected Project Experience

Lou Ruvo Center for Brain Health

High Roller Observation Wheel

Fontaine Bleu (The Drew) Façade

Los Angeles Rams Stadium, Inglewood

Warriors Arena, San Francisco

Los Angeles Football Club Stadium, Los Angeles

49ers Levi Stadium, Santa Clara

Tom Bradley International Terminal Renovations, LAX

AT&T Park, San Francisco

Southwest Terminal 1, LAX

United Terminal Renovations, LAX

Regional Intermodal Transportation Center, Bob Hope Airport, Burbank

Long Beach Airport Runway 7L-25R, Long Beach

Long Beach Airport Air Carrier Ramp

San Francisco International Airport- Various Projects

Google Spruce Goose Hanger, Playa Vista

San Francisco-Oakland Bay Bridge Replacement- Self-Anchored

Suspension Span

BART Aerial Retrofit, Oakland

Foothill Gold Line, Los Angeles Metropolitan Transportation Authority

Sixth Street Bridge Replacement, Los Angeles



R. Theodore Peet, PE

Project Engineer

Mr. Peet is a multi-certified Registered Civil Engineer, with over 40 years of experience in the construction industry. In addition to a registered civil engineer, Mr. Peet is also ASNT Level III and a legacy ICC certified steel and welding inspector. He is a valued member of our Engineering team and has worked with Smith-Emery since 1997. He excels as a designated Project Engineer and is as an asset to any project team.

Education

University of Pittsburgh
B.S. Civil Engineering

Certifications

Registered
Professional
Engineer, Civil (CA)
#: C62632

ASNT NDT Level III

Certification #: 15090
Magnetic Particle
Testing

- Liquid Penetrant Testing
- Radiographic Testing
- Ultrasonic Testing

International Code
Council (ICC)

- Structural Steel and
Welding Inspector
(legacy)

- Structural Steel and
Bolting Inspector

- Structural Welding
Inspector

SELECTED PROJECT EXPERIENCE

Los Angeles Natural History Museum

Hollywood Park Casino and Parking Structure

Inglewood Football Stadium and Entertainment District

LAFC Practice Facility, Los Angeles

LAFC Stadium Project, Los Angeles

Los Angeles Memorial Coliseum

The Broad Museum, Los Angeles

Santa Monica Civic Center Parking Structure, Santa Monica

USC The Village, Los Angeles

USC Broad Center, Los Angeles

Regional Intermodal Transportation Center, Burbank Airport

Fullerton Transportation Center & Parking Structure

Staples Center, Los Angeles

LA Live! Los Angeles

The Hotel and Residence at L.A. Live, Los Angeles

Los Angeles Federal Courthouse, Los Angeles

Loma Linda Hospital Remodel and Expansion, Loma Linda



Robert Greeley

Senior Project and Operations Manager

Certifications:

International Code Council Special
Inspector No. 8408785 Soils-
Exp. 1/13/2019

American Concrete Institute:
Certificate of Completion Shotcrete:
Guide & Specification-11149

NDT-Ultrasonic Testing Level I

National Highway Institute –
Certificate in HMA Paving Field
Inspection FHWA-NHI-131129

Caltrans Certified: CT539-CT540-
CT543-CT556-CT557-CT504-CT518

CED Engineering Soil Mechanics:
Certificate Classification of Soils-CN:
G04-002

CED Engineering Soil Mechanics:
Certificate Classification of Soils-CN:
G04-002

Nuclear Gauge Certification ID# 1979

Public Works Inspection Program,
Santiago Canyon College
CMAA - Certificate of completion in
Professional Construction
Management

OSHA-30 Hr. Completion date
7/31/2019

Mr. Greeley is a valued member of our management team and has worked with Smith-Emery since 1978. Robert has extensive experience in managing public works and private sector projects and is familiar with their various requirements. He assumes the role of Operations Manager overseeing QA/QC both for field and laboratory testing programs assuring adherence to Project specifications and QA/QC requirements.

Selected Project Experience

LA Stadium & Entertainment District-Rams Stadium
LAX Southwest Airlines Terminal 1 & 1.5.
High Speed Rail-Phase II-Central California
Cleo Parking Structure -6500 Parking Spaces-Disneyland, Anaheim
Transportation Center Parking Structure Expansion – Fullerton, CA
California State University, Fullerton / Student Housing / Parking
Structure – Fullerton, CA
Hyundai Motor Company, Corporate Headquarters & Parking
Structure – Fountain Valley, CA
Loma Linda University Medical Center – Loma Linda, CA
OCPC Broadcom, Irvine Campus & Bridge – Irvine, CA
Santa Ana College, Santa Ana College, CA
Burbank Airport Expansion-Burbank, CA
City of Downey, Various CIP Project – Downey, CA
California State Polytechnic University Student Services Building –
Pomona, CA
City of Garden Grove, Various CIP Projects – Fullerton, CA
City of Fullerton, Various CIP Projects – Fullerton, CA
City of Orange, Various CIP Projects – Orange, CA
Port of Long Beach, Oxy Wells Removal-Gerald Desmond Bridge –
Long Beach, CA
Port of Long Beach, Piers “E,” “F,” “G,” and “T” – Long Beach, CA
Griffin Structures, Fullerton Community Center – Fullerton, CA
Long Beach Airport, Air Carrier Ramp, Taxiway G– Long Beach, CA
International Polytechnic High School – Pomona, CA
Orange County Sanitation District Plant Expansion-Fountain Valley,
CA
Orange County Water District, Various Projects, Orange County CA

**Education:**

B.S., Civil Engineering,
CSU, Los Angeles, CA

Professional Registration:

Registered Civil Engineer
#C68166

City of Los Angeles
Registered Grading Deputy
Inspector #P008158

Certifications:

HAZWOPER - 40 Hour
Trained

Simon Bittar, PE

Project Engineer

Mr. Bittar has performed hundreds of geotechnical investigations over the past 20 years. Mr. Bittar handles the project management for many of our geotechnical investigations; overseeing and providing technical guidance to soil technicians; recommendations, preparation of geotechnical engineering reports and compaction reports; as well as providing geotechnical construction observations and inspections during the grading operations and construction phase of various projects.

Selected Project Experience

Los Angeles Rams Stadium & Entertainment District, Inglewood, CA
Mass grading, Compaction reports, spread footings, deep piles, recommendations and engineering analysis were

Fox Studios, Century City Area of the City of Los Angeles, CA
Prepared Geotechnical investigation report for the proposed construction of a three-story building over five-story subterranean parking structure.

Fox Studios, Century City Area of the City of Los Angeles, CA
Performed a geotechnical investigation for Building 310 (Grib Building) with full subterranean parking.

Fox Studios, Century City Area of the City of Los Angeles, CA
Prepared Geotechnical observation during the construction of the office building on lot "B". The building consisted of two- to three-story structure over three levels of subterranean parking.

Opus West, Broadstone Project, Down Town Area of the City of Los Angeles, CA
Provided geotechnical observation during the construction of the four-to-five story apartment building over one- to two-levels of subterranean parking.

Opus West Project, Proposed Camarillo Business Park (14 Structures), City of Camarillo, Ventura County, CA
Prepared geotechnical investigation report for the proposed construction of fourteen (14) commercial structures on grade.

Global Premier, Bay Apartment Project, Moreno Valley, CA
Provided geotechnical observation and project management during the construction of the four apartment buildings on grade.



Certifications:

Nuclear Gauge Certified

Caltrans Certified 105, 201,
202, 216, 226, 301, 304, 308,
366, 370, 382, 521, 217, 309,
523, 524, 384, 385

Carlos Lievanos

Laboratory Manager

Mr. Lievanos is a highly experienced with all laboratory testing. He has had extensive training with Caltrans and Smith-Emery Laboratories. He is responsible for soils and geotechnical labs. He was instrumental in setting up two laboratories for High Speed Rail in record time – from set up to calibration to obtaining all necessary certifications.

Selected Project Experience

Sycamore Elementary School – Orange, CA

Yorba Middle School – Orange, CA

City of Upland – Bridge retrofit – Upland, CA

California High Speed Rail –Construction Packages 2 & 3 – Selma, CA

City of Fullerton / Various Locations – Fullerton, CA

City of San Juan Capistrano – Roadway Improvements

City of Orange / Various Locations – Orange, CA

Jamboree Road Improvement – Tustin, CA

Long Beach Airport / Air Carrier Ramp – Long Beach, CA

Long Beach Airport / Taxiway G – Long Beach, CA

Port of Long Beach, Pier T & G – Long Beach, CA

City of Long Beach Street Improvements/Variou Locations –

Long Beach, CA

Jeffrey Road Grade Separation – Irvine, CA

SR-55 Ramp Improvement – Tustin, CA

I-5/Jamboree Widening – Irvine, CA

57 Freeway/ Nutwood – Fullerton, CA

TL-0111 LIVE Version

CALIFORNIA DEPARTMENT OF TRANSPORTATION*Presents this***CERTIFICATE**

to

Carlos Lievanos**who is certified to perform the following tests:**

Test Method	Expiration Date	IA Responsible	Associated Laboratory
CT 105	2019 2017-10-11	Brandt Houchen	Lab 1
CT 201	2019 2017-10-11	Brandt Houchen	Lab 1
CT 202	2019-10-11	Brandt Houchen	Lab 1
CT 216	2019-10-11	Brandt Houchen	Lab 1
CT 217	2019-10-11	Brandt Houchen	Lab 1
CT 226	2019-10-11	Brandt Houchen	Lab 1
CT 231	2019-10-11	Brandt Houchen	Lab 1
CT 301	2019-07-10	Brandt Houchen	Lab 1
CT 304	2019-07-10	Brandt Houchen	Lab 1
CT 308	2019-07-10	Brandt Houchen	Lab 1
CT 366	2019-07-10	Brandt Houchen	Lab 1
CT 382	2019-07-10	Brandt Houchen	Lab 1
CT 521	2020-04-17	Chad Claxton	Lab 1
CT 523	2020-04-17	Chad Claxton	Lab 1

Lab 1: Smith Emery Laboratories

 A handwritten signature in black ink, appearing to read 'C. Lievanos', is written over a horizontal line.

 Certified Independent Assurance (IA)

Date of download: 04/19/2018

Note: This certificate is valid as long as the Tester complies with applicable requirements in Caltrans' Independent Assurance Program Manual.



SMITH-EMERY LABORATORIES

An Independent Commercial Testing Laboratory, Established 1904

Leonard Robertson | *Field Technician Supervisor*

Mr. Robertson is a valued member of our team and he excels at his duties as a Field Technician Supervisor. Leonard worked as a field technician for many years, and is proficient with public works and private sector projects and their various requirements. He has been the Field Technician Supervisor in our Orange County division since 2015. Leonard's duties include, but are not limited to: all aspects of technician supervision, project plan and specification review, soils testing, asphalt testing, concrete testing and pull/torque testing. He has worked with Smith-Emery since 2006, and is an asset to any project team.

Licenses and Certifications

Nuclear Gauge Certification

American Concrete Institute Field Testing Technician – Grade I Certification, Exp. 01/14/2022

Railroad Safety Certification

California Test Certifications (CALTRANS)

CT 125 – Admixture Sampling

CT 125 – Bituminous Sampling

CT 125 – General Sampling

CT 125 – PCC Sampling

CT 125 – AGG Sampling, Aggregates

CT 125 – HMA Sampling

CT 231 – Relative Compaction, Nuclear Gauge

CT 375 – AC Density by Nuclear Gauge

CT 504 – Air Content of PCC,
Pressure Method

CT 518 – Unit Weight, PCC

CT 539 – Sampling Fresh Concrete

CT 540 – Making Cylinders

CT 543 – Air Content of PCC,
Volumetric Method

CT 556 – Slump, PCC

CT 557 – Temperature, PCC

Project Experience

Mr. Robertson has supported Smith-Emery as Field Technician Supervisor and Field Technician in the following municipalities on various on-call, capital improvement projects (CIP) and local assistance projects:

- City of Downey, California
- City of Irvine, California
- City of Orange, California
- City of Tustin, California
- City of Costa Mesa, California
- City of Fullerton, California
- Port of Long Beach – Long Beach, California

Other Notable Projects:

- California State Polytechnic University, Pomona – Student Services Building – Pomona, California
- Loma Linda University Medical Center – Loma Linda, California
- Orange County Great Park, Sports Park – Irvine, California
- Long Beach Airport, Air Carrier Ramp – Long Beach, California
- Transportation Center Parking Expansion – Fullerton, California
- California State University, Fullerton Student Housing – Fullerton, California



Tester Information for Leonard Robertson

Tester Details

Basic Information

First Name	Leonard
Last Name	Robertson
Status	Active

[Print Certificates](#)

Associated Labs

Total 1 item.

Lab Name	Manager Name	Full Address	District	Page Alias
Smith Emery - Anaheim	Robert Greeley	1195 N. Tustin Ave., Anaheim, CA 92807	12	Lab 1

Test Methods

California Test (CT) Certifications

Total 18 items.

Test Method	Expiration Date	Status	IA Responsible	Within Lab(s) Scope	Comments
CT 621 Compressive Strength - PCC	2019-04-23	Expired	Chad Claxton	Lab 1	(No comments)
CT 623 Flexural Strength - PCC	2019-04-23	Expired	Chad Claxton	Lab 1	(No comments)
CT 624 Flexural Strength of Rapid Strength - PCC	2019-04-23	Expired	Chad Claxton	Lab 1	(No comments)
CT 125 ADMIX Sampling - ADMIXTURE	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 125 BIT Sampling - BITUMINOUS	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 125 GEN Sampling - GENERAL	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 125 PCC Sampling - PCC	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 231 Relative Compaction - Nuclear Gage	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 375 AC Density by Nuclear Gage	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 504 Air Content of PCC - Pressure Method (JTCP - PCC)	2022-01-14	Active	Jasdeep Sandhu	Lab 1	(No comments)
CT 518 Unit Weight - PCC (JTCP - PCC)	2022-01-14	Active	Jasdeep Sandhu	Lab 1	(No comments)
CT 539 Sampling Fresh Concrete (JTCP - PCC)	2022-01-14	Active	Jasdeep Sandhu	Lab 1	(No comments)
CT 540 Making Cylinders - PCC (JTCP - PCC)	2022-01-14	Active	Jasdeep Sandhu	Lab 1	(No comments)
CT 543 Air Content of PCC - Volumetric Method (JTCP - PCC)	2022-01-14	Active	Jasdeep Sandhu	(No lab)	(No comments)
CT 556 Slump - PCC (JTCP - PCC)	2022-01-14	Active	Jasdeep Sandhu	Lab 1	(No comments)
CT 557 Temperature - PCC (JTCP - PCC)	2022-01-14	Active	Jasdeep Sandhu	Lab 1	(No comments)
CT 125 AGG Sampling - AGGREGATES (JTCP - HMA I / S&A)	2022-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 125 HMA Sampling - HMA (JTCP - HMA I)	2022-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)

AASHTO/ASTM Proficiencies

Test Method	Expiration Date	Status	IA Responsible	Within Lab(s) Scope	Comments
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No results found.



SMITH-EMERY LABORATORIES

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Patrick Dunne | *Field Technician*

Mr. Dunne is a valued member of our team and he excels at his duties as a Field Testing Technician. Pat is proficient with public works and private sector projects and their various requirements. His duties include, but are not limited to: soils testing, asphalt testing, concrete testing and pull/torque testing. Pat has worked with Smith-Emery since 2015, and is an asset to any project team.

Licenses and Certifications

American Concrete Institute Field Testing Technician – Grade I Certification, Exp. 11/12/2021

Nuclear Gauge Certification.

California Test Certifications (CALTRANS)

- CT 125 – General Sampling
- CT 125 – AGG Sampling, Aggregates
- CT 125 – HMA Sampling
- CT 231 – Relative Compaction, Nuclear Gauge
- CT 375 – AC Density by Nuclear Gauge
- CT 504 – Air Content of PCC, Pressure Method
- CT 518 – Unit Weight, PCC
- CT 539 – Sampling Fresh Concrete
- CT 540 – Making Cylinders
- CT 543 – Air Content of PCC, Volumetric Method
- CT 556 – Slump, PCC
- CT 557 – Temperature, PCC

Project Experience

Mr. Dunne has supported Smith-Emery in the following municipalities on various on-call, capital improvement projects (CIP) and local assistance projects:

- City of Downey, California
- City of Irvine, California
- City of Orange, California
- City of Tustin, California
- City of Costa Mesa, California
- City of Fullerton, California
- Port of Long Beach, Middle Harbor – Long Beach, California

Other Notable Projects:

- Silverlake Medical Center, NPC³ Upgrades – Los Angeles, California
- Citrus Valley Hospital, Emergency Department – Covina, California
- Newport Bay Marina Mixed-use Development – Newport Beach, California
- OCPC Broadcom, Irvine Campus – Irvine, California
- WREN (South Park Site 4) Mixed-use Development – Los Angeles, California
- The Source OC – Buena Park, California
- Residences at St. Vibiana – Los Angeles, California



Tester Information for Patrick Dunne

Tester Details

Basic Information

First Name	Patrick
Last Name	Dunne
Status	Active

[Print Certificates](#)

Associated Labs

Total 1 item.

Lab Name	Manager Name	Full Address	District	Page Alias
Smith Emery - Anaheim	Robert Greeley	1195 N. Tustin Ave., Anaheim, CA 92807	12	Lab 1

Test Methods

California Test (CT) Certifications

Total 12 items.

Test Method	Expiration Date	Status	IA Responsible	Within Lab(s) Scope	Comments
CT 125 GEN Sampling - GENERAL	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 231 Relative Compaction - Nuclear Gage	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 375 AC Density by Nuclear Gage	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 504 Air Content of PCC - Pressure Method (JTCP - PCC)	2021-11-12	Active	Richard Hibbard	Lab 1	(No comments)
CT 618 Unit Weight - PCC (JTCP - PCC)	2021-11-12	Active	Richard Hibbard	Lab 1	(No comments)
CT 639 Sampling Fresh Concrete (JTCP - PCC)	2021-11-12	Active	Richard Hibbard	Lab 1	(No comments)
CT 640 Making Cylinders - PCC (JTCP - PCC)	2021-11-12	Active	Richard Hibbard	Lab 1	(No comments)
CT 643 Air Content of PCC - Volumetric Method (JTCP - PCC)	2021-11-12	Active	Richard Hibbard	(No lab)	(No comments)
CT 556 Slump - PCC (JTCP - PCC)	2021-11-12	Active	Richard Hibbard	Lab 1	(No comments)
CT 557 Temperature - PCC (JTCP - PCC)	2021-11-12	Active	Richard Hibbard	Lab 1	(No comments)
CT 125 AGG Sampling - AGGREGATES (JTCP - HMA I / S&A)	2022-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 125 HMA Sampling - HMA (JTCP - HMA I)	2022-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)

AASHTO/ASTM Proficiencies

Test Method	Expiration Date	Status	IA Responsible	Within Lab(s) Scope	Comments
No results found.					



SMITH-EMERY LABORATORIES

An Independent Commercial Testing Laboratory, Established 1904

Marcos Campos | *Field Technician*

Mr. Campos is a valued member of our team and he excels at his duties as a Field Testing Technician. Marcos is proficient with public works and private sector projects and their various requirements. His duties include, but are not limited to: soils testing, asphalt testing, concrete testing and pull/torque testing. Marcos has worked with Smith-Emery since 2017, and is an asset to any project team.

Licenses and Certifications

American Concrete Institute Field Testing Technician – Grade I Certification, Exp. 01/14/2022

Nuclear Gauge Certification

California Test Certifications (CALTRANS)

CT 125 – Admixture Sampling	CT 504 – Air Content of PCC, Pressure Method
CT 125 – Bituminous Sampling	CT 518 – Unit Weight, PCC
CT 125 – General Sampling	CT 539 – Sampling Fresh Concrete
CT 125 – PCC Sampling	CT 540 – Making Cylinders
CT 125 – AGG Sampling, Aggregates	CT 543 – Air Content of PCC, Volumetric Method
CT 125 – HMA Sampling	CT 556 – Slump, PCC
CT 231 – Relative Compaction, Nuclear Gauge	CT 557 – Temperature, PCC
CT 375 – AC Density by Nuclear Gauge	

Project Experience

Mr. Campos has supported Smith-Emery in the following municipalities on various on-call, capital improvement projects (CIP) and local assistance projects:

- City of Downey, California
- City of Irvine, California
- City of Orange, California
- City of Tustin, California
- City of Costa Mesa, California
- City of Fullerton, California
- Port of Long Beach, Middle Harbor – Long Beach, California

Other Notable Projects:

- California State University, San Bernardino – College of Extended Learning Expansion – San Bernardino, California
- Hollywood Presbyterian Hospital – Los Angeles, California
- JW Marriott – Anaheim, California
- California State Polytechnic University, Pomona – Student Services Building – Pomona, California



Tester Information for Marcos Campos

Tester Details

Basic Information

First Name	Marcos
Last Name	Campos
Status	Active

[Print Certificates](#)

Associated Labs

Total 1 item.

Lab Name	Manager Name	Full Address	District	Page Alias
Smith Emery - Anaheim	Robert Greeley	1105 N. Tustin Ave., Anaheim, CA 92807	12	Lab 1

Test Methods

California Test (CT) Certifications

Total 15 items.

Test Method	Expiration Date	Status	IA Responsible	Within Lab(s) Scope	Comments
CT 125 ADMIX Sampling - ADMIXTURE	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 125 BIT Sampling - BITUMINOUS	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 125 GEN Sampling - GENERAL	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 125 PCC Sampling - PCC	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 231 Relative Compaction - Nuclear Gage	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 375 AC Density by Nuclear Gage	2021-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 504 Air Content of PCC - Pressure Method (JTCP - PCC)	2022-01-14	Active	Richard Hibbard	Lab 1	(No comments)
CT 518 Unit Weight - PCC (JTCP - PCC)	2022-01-14	Active	Richard Hibbard	Lab 1	(No comments)
CT 539 Sampling Fresh Concrete (JTCP - PCC)	2022-01-14	Active	Richard Hibbard	Lab 1	(No comments)
CT 540 Making Cylinders - PCC (JTCP - PCC)	2022-01-14	Active	Richard Hibbard	Lab 1	(No comments)
CT 543 Air Content of PCC - Volumetric Method (JTCP - PCC)	2022-01-14	Active	Richard Hibbard	(No lab)	(No comments)
CT 558 Slump - PCC (JTCP - PCC)	2022-01-14	Active	Richard Hibbard	Lab 1	(No comments)
CT 557 Temperature - PCC (JTCP - PCC)	2022-01-14	Active	Richard Hibbard	Lab 1	(No comments)
CT 125 AGG Sampling - AGGREGATES (JTCP - HMA I / S&A)	2022-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)
CT 125 HMA Sampling - HMA (JTCP - HMA I)	2022-05-21	Active	Afsaneh Ostovar	Lab 1	(No comments)

AASHTO/ASTM Proficiencies

Test Method	Expiration Date	Status	IA Responsible	Within Lab(s) Scope	Comments
No results found.					



SMITH-EMERY LABORATORIES

An Independent Commercial Testing Laboratory, Established 1904

Myles Lutes | *Field Technician*

Mr. Lutes is a valued member of our team and he excels at his duties as a Field Testing Technician. Myles is proficient with public works and private sector projects and their various requirements. His duties include, but are not limited to: soils testing, asphalt testing, concrete testing and pull/torque testing. He has worked with Smith-Emery since 2017, and is an asset to any project team.

Licenses and Certifications

American Concrete Institute Field Testing Technician – Grade I Certification, Exp. 06/17/2022

Nuclear Gauge Certification

California Test Certifications (CALTRANS)

- CT 504 – Air Content of PCC, Pressure Method
- CT 518 – Unit Weight, PCC
- CT 539 – Sampling Fresh Concrete
- CT 540 – Making Cylinders
- CT 543 – Air Content of PCC, Volumetric Method
- CT 556 – Slump, PCC
- CT 557 – Temperature, PCC

Project Experience

Mr. Lutes has supported Smith-Emery in the following municipalities on various on-call, capital improvement projects (CIP) and local assistance projects:

- City of Downey, California
- City of Irvine, California
- City of Orange, California
- City of Tustin, California
- City of Costa Mesa, California
- City of Fullerton, California

Other Notable Projects:

- California State University, San Bernardino – College of Extended Learning Expansion – San Bernardino, California
- Lupin Hill Elementary School – Calabasas, California
- JW Marriott – Anaheim, California
- Ivy Station – Culver City, California



Tester Information for Myles Lutes

Tester Details

Basic Information

First Name	Myles
Last Name	Lutes
Status	Active

[Print Certificates](#)

Associated Labs

Total 1 item.				
Lab Name	Manager Name	Full Address	District	Page Alias
Smith Emery - Anaheim	Robert Greeley	1185 N. Tustin Ave., Anaheim, CA 92807	12	Lab 1

Test Methods

California Test (CT) Certifications

Total 7 items.						
Test Method	Expiration Date	Status	IA Responsible	Within Lab(s) Scope	Comments	
CT 504 Air Content of PCC - Pressure Method (JTCP - PCC)	2022-06-17	Active	Richard Hibbard	Lab 1	(No comments)	
CT 518 Unit Weight - PCC (JTCP - PCC)	2022-06-17	Active	Richard Hibbard	Lab 1	(No comments)	
CT 539 Sampling Fresh Concrete (JTCP - PCC)	2022-06-17	Active	Richard Hibbard	Lab 1	(No comments)	
CT 540 Making Cylinders - PCC (JTCP - PCC)	2022-06-17	Active	Richard Hibbard	Lab 1	(No comments)	
CT 543 Air Content of PCC - Volumetric Method (JTCP - PCC)	2022-06-17	Active	Richard Hibbard	(No lab)	(No comments)	
CT 558 Slump - PCC (JTCP - PCC)	2022-06-17	Active	Richard Hibbard	Lab 1	(No comments)	
CT 557 Temperature - PCC (JTCP - PCC)	2022-06-17	Active	Richard Hibbard	Lab 1	(No comments)	

AASHTO/ASTM Proficiencies

Test Method	Expiration Date	Status	IA Responsible	Within Lab(s) Scope	Comments
No results found.					

For concerns with missing or erroneous data, please contact your Independent Assurance personnel

EXHIBIT C
CITY COUNCIL POLICY 100-5

CITY OF COSTA MESA, CALIFORNIA

COUNCIL POLICY

SUBJECT	POLICY NUMBER	EFFECTIVE DATE	PAGE
DRUG-FREE WORKPLACE	100-5	8-8-89	1 of 3

BACKGROUND

Under the Federal Drug-Free Workplace Act of 1988, passed as part of omnibus drug legislation enacted November 18, 1988, contractors and grantees of Federal funds must certify that they will provide drug-free workplaces. At the present time, the City of Costa Mesa, as a sub-grantee of Federal funds under a variety of programs, is required to abide by this Act. The City Council has expressed its support of the national effort to eradicate drug abuse through the creation of a Substance Abuse Committee, institution of a City-wide D.A.R.E. program in all local schools and other activities in support of a drug-free community. This policy is intended to extend that effort to contractors and grantees of the City of Costa Mesa in the elimination of dangerous drugs in the workplace.

PURPOSE

It is the purpose of this Policy to:

1. Clearly state the City of Costa Mesa's commitment to a drug-free society.
2. Set forth guidelines to ensure that public, private, and nonprofit organizations receiving funds from the City of Costa Mesa share the commitment to a drug-free workplace.

POLICY

The City Manager, under direction by the City Council, shall take the necessary steps to see that the following provisions are included in all contracts and agreements entered into by the City of Costa Mesa involving the disbursement of funds.

1. Contractor or Sub-grantee hereby certifies that it will provide a drug-free workplace by:
 - A. Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in Contractor's and/or sub-grantee's workplace, specifically the job site or location included in this contract, and specifying the actions that will be taken against the employees for violation of such prohibition;
 - B. Establishing a Drug-Free Awareness Program to inform employees about:

SUBJECT	POLICY NUMBER	EFFECTIVE DATE	PAGE
DRUG-FREE WORKPLACE	100-5	8-8-89	2 of 3

1. The dangers of drug abuse in the workplace;
 2. Contractor's and/or sub-grantee's policy of maintaining a drug-free workplace;
 3. Any available drug counseling, rehabilitation and employee assistance programs; and
 4. The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
- C. Making it a requirement that each employee to be engaged in the performance of the contract be given a copy of the statement required by subparagraph A;
- D. Notifying the employee in the statement required by subparagraph 1 A that, as a condition of employment under the contract, the employee will:
1. Abide by the terms of the statement; and
 2. Notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction;
- E. Notifying the City of Costa Mesa within ten (10) days after receiving notice under subparagraph 1 D 2 from an employee or otherwise receiving the actual notice of such conviction;
- F. Taking one of the following actions within thirty (30) days of receiving notice under subparagraph 1 D 2 with respect to an employee who is so convicted:
1. Taking appropriate personnel action against such an employee, up to and including termination; or
 2. Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health agency, law enforcement, or other appropriate agency;

SUBJECT	POLICY NUMBER	EFFECTIVE DATE	PAGE
DRUG-FREE WORKPLACE	100-5	8-8-89	3 of 3

- G. Making a good faith effort to maintain a drug-free workplace through implementation of subparagraphs 1 A through 1 F, inclusive.
2. Contractor and/or sub-grantee shall be deemed to be in violation of this Policy if the City of Costa Mesa determines that:
 - a. Contractor and/or sub-grantee has made a false certification under paragraph 1 above;
 - b. Contractor and/or sub-grantee has violated the certification by failing to carry out the requirements of subparagraphs 1 A through 1 G above;
 - c. Such number of employees of Contractor and/or sub-grantee have been convicted of violations of criminal drug statutes for violations occurring in the workplace as to indicate that the contractor and/or sub-grantee has failed to make a good faith effort to provide a drug-free workplace.
 3. Should any contractor and/or sub-grantee be deemed to be in violation of this Policy pursuant to the provisions of 2 A, B, and C, a suspension, termination or debarment proceeding subject to applicable Federal, State, and local laws shall be conducted. Upon issuance of any final decision under this section requiring debarment of a contractor and/or sub-grantee, the contractor and/or sub-grantee shall be ineligible for award of any contract, agreement or grant from the City of Costa Mesa for a period specified in the decision, not to exceed five (5) years. Upon issuance of any final decision recommending against debarment of the contractor and/or sub-grantee, the contractor and/or sub-grantee shall be eligible for compensation as provided by law.



SMITEME-01

JOHANSGM

CERTIFICATE OF LIABILITY INSURANCE

 DATE (MM/DD/YYYY)
10/21/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER License # 0E67768 IOA Insurance Services 130 Vantia Suite 260 Aliso Viejo, CA 92656	CONTACT NAME: Molly Johansing PHONE (A/C, No, Ext): (626) 243-9135 FAX (A/C, No): (626) 568-2886 E-MAIL ADDRESS: Molly.Johansing@ioausa.com
INSURER(S) AFFORDING COVERAGE	
INSURED	NAIC #
Smith Emery Laboratories 1195 N. Tustin Avenue Anaheim, CA 92807	INSURER A: Philadelphia Indemnity Insurance Company 18058 INSURER B: Continental Insurance Company 35289 INSURER C: Associated Industries Insurance Company, Inc 23140 INSURER D: INSURER E: INSURER F:

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PROJ <input type="checkbox"/> LOC <input type="checkbox"/> OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			PHPK1962658	4/1/2019	4/1/2020	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			6046351287	4/1/2019	4/1/2020	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y <input checked="" type="checkbox"/> N/A If yes, describe under DESCRIPTION OF OPERATIONS below						<input type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
C	Professional Liab.			AES1032163	11/1/2018	12/1/2019	Per Claim \$ 1,000,000
C	Professional Liab.			AES1032163	11/1/2018	12/1/2019	Aggregate \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 Professional Liability Deductible: \$250,000

CERTIFICATE HOLDER

CANCELLATION

City of Costa Mesa Attn: Robert Staples 77 Fair Drive Costa Mesa, CA 92626	<p>SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.</p> <p>AUTHORIZED REPRESENTATIVE</p>
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ACORD 25 (2016/03)

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ZURICH

Additional Insured – Automatic – Owners, Lessees Or Contractors

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

Policy No. GLO 3486742-15

Effective Date: 4/1/2019

This endorsement modifies insurance provided under the:

Commercial General Liability Coverage Part

A. Section II – Who Is An Insured is amended to include as an additional insured any person or organization whom you are required to add as an additional insured under a written contract or written agreement executed by you, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" and subject to the following:

1. If such written contract or written agreement specifically requires that you provide that the person or organization be named as an additional insured under one or both of the following endorsements:
 - a. The Insurance Services Office (ISO) ISO CG 20 10 (10/01 edition); or
 - b. The ISO CG 20 37 (10/01 edition),

such person or organization is then an additional insured with respect to such endorsement(s), but only to the extent that "bodily injury", "property damage" or "personal and advertising injury" arises out of:

- (1) Your ongoing operations, with respect to Paragraph 1.a. above; or
- (2) "Your work", with respect to Paragraph 1.b. above,

which is the subject of the written contract or written agreement.

However, solely with respect to this Paragraph 1., insurance afforded to such additional insured:

- (a) Only applies if the "bodily injury", "property damage" or "personal and advertising injury" offense occurs during the policy period and subsequent to your execution of the written contract or written agreement; and
- (b) Does not apply to "bodily injury" or "property damage" caused by "your work" and included within the "products-completed operations hazard" unless the written contract or written agreement specifically requires that you provide such coverage to such additional insured.

2. If such written contract or written agreement specifically requires that you provide that the person or organization be named as an additional insured under one or both of the following endorsements:
 - a. The Insurance Services Office (ISO) ISO CG 20 10 (07/04 edition); or
 - b. The ISO CG 20 37 (07/04 edition),

such person or organization is then an additional insured with respect to such endorsement(s), but only to the extent that "bodily injury", "property damage" or "personal and advertising injury" is caused, in whole or in part, by:

- (1) Your acts or omissions; or
- (2) The acts or omissions of those acting on your behalf,

in the performance of:

- (a) Your ongoing operations, with respect to Paragraph 2.a. above; or
- (b) "Your work" and included in the "products-completed operations hazard", with respect to Paragraph 2.b. above,

which is the subject of the written contract or written agreement.

However, solely with respect to this Paragraph 2., insurance afforded to such additional insured:

- (i) Only applies if the "bodily injury", "property damage" or "personal and advertising injury" offense occurs during the policy period and subsequent to your execution of the written contract or written agreement; and
- (ii) Does not apply to "bodily injury" or "property damage" caused by "your work" and included within the "products-completed operations hazard" unless the written contract or written agreement specifically requires that you provide such coverage to such additional insured.

3. If neither Paragraph 1. nor Paragraph 2. above apply and such written contract or written agreement requires that you provide that the person or organization be named as an additional insured:

- a. Under the ISO CG 20 10 (04/13 edition, any subsequent edition or if no edition date is specified); or
- b. With respect to ongoing operations (if no form is specified),

such person or organization is then an additional insured only to the extent that "bodily injury", "property damage" or "personal and advertising injury" is caused, in whole or in part by:

- (1) Your acts or omissions; or
- (2) The acts or omissions of those acting on your behalf,

in the performance of your ongoing operations, which is the subject of the written contract or written agreement.

However, solely with respect to this Paragraph 3., insurance afforded to such additional insured:

- (a) Only applies to the extent permitted by law;
- (b) Will not be broader than that which you are required by the written contract or written agreement to provide for such additional insured; and
- (c) Only applies if the "bodily injury", "property damage" or "personal and advertising injury" offense occurs during the policy period and subsequent to your execution of the written contract or written agreement.

4. If neither Paragraph 1. nor Paragraph 2. above apply and such written contract or written agreement requires that you provide that the person or organization be named as an additional insured:

- a. Under the ISO CG 20 37 (04/13 edition, any subsequent edition or if no edition date is specified); or
- b. With respect to the "products-completed operations hazard" (if no form is specified),

such person or organization is then an additional insured only to the extent that "bodily injury" or "property damage" is caused, in whole or in part by "your work" and included in the "products-completed operations hazard", which is the subject of the written contract or written agreement.

However, solely with respect to this Paragraph 4., insurance afforded to such additional insured:

- (1) Only applies to the extent permitted by law;
- (2) Will not be broader than that which you are required by the written contract or written agreement to provide for such additional insured;
- (3) Only applies if the "bodily injury" or "property damage" occurs during the policy period and subsequent to your execution of the written contract or written agreement; and

(4) Does not apply to "bodily injury" or "property damage" caused by "your work" and included within the "products-completed operations hazard" unless the written contract or written agreement specifically requires that you provide such coverage to such additional insured.

B. Solely with respect to the insurance afforded to any additional insured referenced in Section A. of this endorsement, the following additional exclusion applies:

This insurance does not apply to "bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of, or failure to render, any professional architectural, engineering or surveying services including:

1. The preparing, approving or failing to prepare or approve maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
2. Supervisory, inspection, architectural or engineering activities.

This exclusion applies even if the claims against any insured allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that insured, if the "occurrence" which caused the "bodily injury" or "property damage", or the offense which caused the "personal and advertising injury", involved the rendering of or the failure to render any professional architectural, engineering or surveying services.

C. Solely with respect to the coverage provided by this endorsement, the following is added to Paragraph 2. Duties In The Event Of Occurrence, Offense, Claim Or Suit of Section IV – Commercial General Liability Conditions:

The additional insured must see to it that:

- (1) We are notified as soon as practicable of an "occurrence" or offense that may result in a claim;
- (2) We receive written notice of a claim or "suit" as soon as practicable; and
- (3) A request for defense and indemnity of the claim or "suit" will promptly be brought against any policy issued by another insurer under which the additional insured may be an insured in any capacity. This provision does not apply to insurance on which the additional insured is a Named Insured if the written contract or written agreement requires that this coverage be primary and non-contributory.

D. Solely with respect to the coverage provided by this endorsement:

1. The following is added to the Other Insurance Condition of Section IV – Commercial General Liability Conditions:

Primary and Noncontributory insurance

This insurance is primary to and will not seek contribution from any other insurance available to an additional insured provided that:

- a. The additional insured is a Named Insured under such other insurance; and
- b. You are required by written contract or written agreement that this insurance be primary and not seek contribution from any other insurance available to the additional insured.

2. The following paragraph is added to Paragraph 4.b. of the Other Insurance Condition under Section IV – Commercial General Liability Conditions:

This insurance is excess over:

Any of the other insurance, whether primary, excess, contingent or on any other basis, available to an additional insured, in which the additional insured on our policy is also covered as an additional insured on another policy providing coverage for the same "occurrence", offense, claim or "suit". This provision does not apply to any policy in which the additional insured is a Named Insured on such other policy and where our policy is required by a written contract or written agreement to provide coverage to the additional insured on a primary and non-contributory basis.

E. This endorsement does not apply to an additional insured which has been added to this Coverage Part by an endorsement showing the additional insured in a Schedule of additional insureds, and which endorsement applies specifically to that identified additional insured.

F. Solely with respect to the insurance afforded to an additional insured under Paragraph A.3. or Paragraph A.4. of this endorsement, the following is added to Section III – Limits Of Insurance:

Additional Insured – Automatic – Owners, Lessees Or Contractors Limit

The most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the written contract or written agreement referenced in Section A. of this endorsement; or
 2. Available under the applicable Limits of Insurance shown in the Declarations,
- whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

All other terms, conditions, provisions and exclusions of this policy remain the same.