EARTH SYSTEMS
2122 East Walnut Street, Suite 200
Pasadena, CA 91107

February 23, 2024

ALTADENA LIBRARY DISTRICT

PROPOSAL FOR CONSTRUCTION INSPECTION AND SOILS ENGINEERING SERVICES ON-CALL SERVICES

EARTH SYSTEMS

February 23, 2024

The Altadena Library District
Attn: Jennifer Pearson, Capital Projects Manager
Jennifer.pearson@huckabee-inc.com

SUBJECT: PROPOSAL FOR CONSTRUCTION INSPECTION AND SOILS ENGINEERING SERVICES ON-CALL SERVICES

Dear Ms. Pearson:

Earth Systems Pacific (Earth Systems) is pleased to submit this proposal to provide Construction inspection and Soils Engineering services on an on-call basis for the Altadena Library District (ALD). As a full-service soils (geotechnical) and materials testing/special inspection consultant, Earth Systems is submitting our qualifications for both disciplines. If awarded a contract, we would be pleased to provide services related to the planned renovations and additions to the Bob Lucas Memorial Branch Library & Literacy Center (Branch) and/or the Altadena Main Library. We have reviewed and understand all elements of the Request for Proposals (RFP) issued on January 24, 2024.

We feel that we are well qualified to provide services in the fields of geotechnical engineering and materials testing/special inspection due to our local office, our experienced and well qualified staff, our experience with similar projects, and our sincere desire to provide high-quality services to ALD in a responsive and cost-effective manner. We offer the following:

LOCAL ENGINEERING OFFICE WITH ACCREDITED MATERIALS TESTING LABORATORY

With a full-service engineering office located within 6 miles of both project sites, we are available to efficiently service requests for site visits or inspections, which can be essential for renovation projects, which may have short design and construction timeframes. This close proximity to the project sites will allow rapid response and save costs associated with travel and mobilization to the sites.

AN EXPERIENCED AND WELL QUALIFIED STAFF OF GEOPROFESSIONALS AND INSPECTORS

The Earth Systems staff includes registered geotechnical engineers, civil engineers, certified engineering geologists, hydrogeologists, environmental geologists, technicians, special inspectors, and laboratory staff that have decades of experience providing geotechnical, geologic, construction observation and materials testing/special inspection services for a wide spectrum of projects ranging from minor improvements such as parking lots to major public works structures.

ACCREDITED MATERIALS TESTING LABORATORIES

The Earth Systems laboratories have the capacity to perform hundreds of tests upon soils, concrete, asphalt, steel, masonry, and other building materials. Our laboratories have been certified or inspected by the U.S. Army Corps of Engineers, the Division of the State Architect (DSA), the Cement and Concrete Reference Laboratory (CCRL), and the AASHTO re:source (formerly AMRL). We also maintain several Caltrans-approved laboratories.

EXPERIENCE WITH SIMILAR CONTRACTS

Earth Systems has been pre-qualified by several municipalities as an approved consultant, and also has been awarded on-call contracts by numerous cities, counties, and water districts throughout California. We are experienced with the management and protocols of such contracts and task orders. Depending upon the project needs, our involvement can range from a single site visit to address a specific site issue to a full geotechnical and/or geologic engineering investigation. Similarly, during construction, we can provide limited assistance or a full complement of construction testing and inspection support services, depending upon ALD's needs.

VALUE ENGINEERING AND COST CONTROL

With increasing budget constraints affecting public agencies, value engineering has become an integral part of the geoprofessional industry. We work with public agencies to assess site constraints that could add project costs, or identify issues that could increase the difficulty of development or result in construction delays. With our local knowledge of geotechnical and geologic conditions, coupled with our involvement during the construction of many projects, we can quickly identify issues that may affect project costs, and utilize knowledge gained from past projects to assist in achieving a successful and cost-effective outcome.

Following review of ALD's Standard Professional Services Agreement, Earth Systems respectfully requests incorporation of a contract amendment (see Appendix). The proposed changes are made with our shared interests in mind, with the objective of providing services to ALD under a contract for operations whereby provisions are insurable by the applicable insurance policies.

Earth Systems acknowledges receipt of Addendum 1 dated February 5, 2024, Addendum 2 dated February 16, 2024. We appreciate your consideration of Earth Systems to provide geotechnical services and materials testing/special inspection services for your projects. As a Vice President of Earth Systems, the undersigned is authorized to bind Earth Systems contractually. Please feel free to contact me if you have any questions or if any additional information is needed.

Sincerely,
Earth Systems Pacific

Christopher F. Allen, PG, CEG
Vice President, Managing Principal

FIRM INFORMATION

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Pasadena, CA 91107
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Fax (805) 781-0180
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SECTION I - EXPERIENCE

QUALIFICATIONS AND BACKGROUND

Earth Systems Pacific (Earth Systems) is a professional consulting firm with services that encompass geotechnical engineering, engineering geology, environmental assessment, construction monitoring, and materials testing/special inspection. Earth Systems, Inc. was founded as a California corporation in 1969, with its original offices in Palo Alto and Ventura, California. Earth Systems Pacific, a subsidiary of Earth Systems, Inc., was established as a California corporation in 1999. With many decades of experience in the Los Angeles area, Earth Systems brings detailed knowledge of soil, groundwater, and geologic conditions to projects planned for this region. Earth Systems offers expertise in development of geotechnical criteria for public works projects, including buildings, water and sewer infrastructure, bridges and roadways, and public parks, as well as materials testing/special inspection during the construction process. We have extensive experience with pavement construction and rehabilitation, including new construction, overlays, recycled materials, permeable pavers, and stabilization of poor subgrade conditions.

Earth Systems' staff of approximately 140 consists of registered geotechnical engineers, certified engineering geologists, soil technicians, special inspectors, and laboratory technicians, augmented by drilling, drafting, and support personnel. Office locations in California include Pasadena, Santa Barbara, Ventura, Palmdale, Bermuda Dunes, Perris, San Luis Obispo, Santa Maria, Salinas, Hollister, and Fremont. The projects undertaken for ALD would be managed from our Pasadena office, information below.

Earth Systems Pacific
2122 East Walnut Street, Suite 200
Pasadena, CA 91107
Phone (626) 356-0955
Fax (805) 781-0180
Authorized Representative:
Christopher Allen, Certified
Engineering Geologist,
Managing Principal
Email: callen@earthsystems.com

www.earthsystems.com

REFERENCES

CONTACT PERSON	ORGANIZATION	LOCATION	SERVICES/DATE
Mr. Stephen Walker, P.E. Principal Engineer	City of Pasadena Department of Public Works 100 North Garfield Avenue Pasadena, CA 91109 (626) 744-7456	Pasadena, CA	On-call services: Geotechnical, Geological, Environmental, Special Inspections and Materials Testing 2004 to present
Mr. Tony Barrios Director of Facilities and Operational Services	Arcadia Unified School District (AUSD) 150 South 3rd Street Arcadia, CA 91007 (626) 821-1435	Arcardia, CA	On-call services: Geotechnical, Geological, Environmental, Special Inspections and Materials Testing 2022 to present
Mr. Ben Smith Facilities Project Manager	California Institute of Technology (CalTech) 1200 East California Boulevard Pasadena, CA 91106 (626) 395-4190	Pasadena, CA	Central Utility Power Plant, Steele Laboratory, Cooling Towers, Hameetman Center, Bechtel Residence Hall, Nitrogen Tank, Children's Center 2012 to 2023
Mr. Mario Bonilla Project Manager	Occidental College 1600 Campus Road Los Angeles, CA 90041 (323) 259-2669	Los Angeles, CA	On-call services: Geotechnical, Geological, Environmental, Special Inspections and/or Materials Testing 2017 to present
Mr. Mark Wilde Senior Civil Engineer	City of Buenaventura 501 Poli Street, Room 120 Ventura, CA 93002 (805) 677-3930	Ventura, CA	City of Buenaventura On-Call 5-Year Professional Services: Geotechnical 2017 – 2027

OUR ROLE

Earth Systems' role during the design phase of the projects will be to provide geotechnical consultation, geotechnical investigations, geologic hazard studies, pavement studies, core sampling and other services of a geotechnical nature that may be necessary to support project design. We are available to respond to any type of service request, large or small, and recognize that staff availability and the ability to respond quickly are key for a consultant to be effective in this role. In addition to providing detailed studies, Earth Systems can assist in specific identification of any adverse geotechnical or geologic properties of the site that may adversely impact the project. We pride ourselves on our ability to develop high quality, constructible solutions that minimally impact project costs and schedules. We are available to attend meetings and consult with ALD or members of the design team to review site conditions and discuss potential solutions. During construction, Earth Systems can provide materials testing and special inspection of soil, concrete, masonry, steel, bolts or other construction materials to document that the work performed meets the requirements of the project plans, specifications and the requirements of the CBC, Greenbook, and/or Caltrans as appropriate.

DISIPLINARY ACTIONS, ADMINSTRATIVE PROCEEDINGS, MALPRACTICE CLAIMS

Within the past 5 years, Earth Systems Pacific ("Earth Systems") has been involved in one construction defect lawsuit as a named defendant along with the other project participants regarding issues with a parking lot. While Earth Systems was not the engineer responsible for designing the parking lot at issue, the lawsuit was resolved through a global settlement. Additionally, the office and its principals performing the services as set forth in the proposal are not subject to any disciplinary actions or administrative proceedings with any governmental agency. This representation is made based on the information available to the proper as of this date.

RELEVANT EXPERIENCE WITH SIMILAR CONTRACTS AND PROJECTS

ROBINSON PARK RECREATION CENTER, PASADENA, CA

Earth Systems conducted a geotechnical engineering investigation for the Robison Park Recreation Center renovation and expansion. Project components included structural additions, the seismic retrofit of the existing community center, stormwater infiltration, light standards, pavement, hardscapes, drainage improvements and landscaping. Site geology, soil conditions, stormwater infiltration and groundwater conditions were assessed as part of the study. The field investigation included exploratory drilling, shallow excavations to expose existing foundations and infiltration testing for a stormwater infiltration system. Geotechnical recommendations were developed for site grading, foundation design including seismic design criteria, slabs-on-grade, retaining walls and pavement. During construction Earth Systems provided continued geotechnical consultation, grading observation, special inspections, and materials testing.

LOS ANGELES ARBORETUM AND BOTANIC GARDEN, ARCADIA, CALIFORNIA

Earth Systems conducted a geotechnical engineering investigation for the Visitor Plaza and parking lot improvements at the Los Angeles Arboretum and Botanic Garden. Project components included remodeling of an existing gift store and entrance structures, new light standards, new pavement, replacement of hardscapes, drainage improvements and new landscaping. Site geology, soil conditions, stormwater infiltration and groundwater conditions were assessed as part of the study. Geotechnical recommendations were developed for site grading, foundation design including seismic design criteria, slabs-on-grade, retaining walls and pavement. During construction Earth Systems provided continued geotechnical consultation, grading observation, special inspections, and materials testing.

CITY OF PASADENA ON-CALL PROFESSIONAL SERVICES, PASADENA, CA

Earth Systems has provided geotechnical engineering services to the City of Pasadena on an on-call basis since 2004 and was recently awarded a contract for another four-year term. Our services ranged from full-service soils engineering reports to projects requiring minor consultation to address a specific project. Geotechnical engineering investigations for various projects were conducted, and typically consisted of site reconnaissance, review of pertinent geologic literature, maps, and aerial photographs, subsurface exploration, laboratory testing of samples, geotechnical analysis of field and laboratory data, and preparation of a geotechnical report. Geotechnical criteria were typically provided for site preparation, grading and excavation, foundation design, slabs-on-grade, seismic considerations, retaining walls, asphalt concrete and Porland cement concrete, and drainage.

THE ROSE BOWL STADIUM, RENOVATION AND IMPROVEMENT PROJECT, PASADENA, CA

This project involved major renovations and improvements to the Rose Bowl Stadium, with the objective of improving public safety, improving facility operations, and maintaining the stadium as a National Historic Landmark. Project elements included reconstruction of the Press Box, widening of existing pedestrian tunnels, removal and reconstruction of restroom and concession buildings, upgrade of site utilities, and new storm drainage and retention facilities. Earth Systems performed surface and shallow subsurface exploration of the site and tested soils samples in our laboratory for characteristics such as moisture and density, grain size distribution, relative strength, and consolidation. Percolation testing was conducted off-site for storm-water disposal. Geotechnical engineering analyses were conducted for liquefaction, earthquake-related settlement, slope stability, bearing capacity and load-deflection relationships for both deep and shallow foundations. Our study also entailed evaluation of the geologic setting and site seismicity and assessment of geologic hazards that might affect the Rose Bowl. A geophysical survey was conducted using refraction microtremor data reduction techniques to estimate the physical properties of subsurface materials and characterize the site for seismic design. Based on our analyses of the data obtained from our field and laboratory testing programs, we provided conclusions and recommendations regarding foundation bearing capacity, foundation design, estimated total and differential foundation settlements, site grading criteria, lateral earth pressures, soils expansion characteristics, soil corrosion characteristics, and preliminary pavement section design. Earth Systems also provided construction observation and monitoring, and materials testing and inspection services.

ADDITIONS TO MOORE LABORATORY AND BIOSCIENCE BUILDINGS, OCCIDENTAL COLLEGE, LOS ANGELES, CA

This project involved the construction of a two-story addition with an elevator to the east of the Moore Laboratory at Occidental College in Los Angeles, California, and included new interior foundations, a loading dock contiguous to the Bioscience building, ADA improvements to a parking area, and a new shade structure. Retaining walls and temporary excavations up to 20 feet in height were required. Field exploration for the project was initially implemented by another consultant; Earth Systems was later retained to augment the original investigation and take the project over as the geotechnical engineer-of-record. Additional subsurface exploration consisted of borings and associated laboratory materials testing. Geotechnical recommendations were developed for the project.

Earth Systems has provided geotechnical engineering investigations for other projects at Occidental College, including investigation of a failed retaining wall adjacent to a structure on Campus Road, and development of geotechnical recommendations for mitigation.

CALIFORNIA INSTITUTE OF TECHNOLOGY (CALTECH), PASADENA, CA

Earth Systems has provided geotechnical engineering investigations and materials testing/special inspection for several projects at the California Institute of Technology (CalTech) in Pasadena, California. Projects have included the Central Utility Power Plant, the Steele Laboratory, Cooling Towers, Hameetman Center, Bechtel Residence Hall, a new Nitrogen Tank, and the Children's Center. Earth Systems' services have included geotechnical and geologic investigations, environmental assessment, and materials testing/special inspection of soil, concrete, masonry, steel and other construction materials during project construction. The most recent project was the replacement of a cooling tower at the Central Utility Plant. This project involved the demolition of an existing cooling tower and surrounding structure; however, existing basement walls were to remain, a new basement slab was to be constructed, and an existing sump pit was to be filled. Earth Systems conducted subsurface exploration, laboratory testing, and seismic analysis for the project. Geotechnical recommendations addressed excavation and shoring, and provided criteria for foundations to support various components of the new structure, including conventional spread foundations, piers, and micropiles.

SECTION II - PERSONNEL

THE PROJECT TEAM

The project team will be led by managing principal and engineering geologist Christopher F. Allen, who will serve as project manager. Mr. Allen brings over 25 years of experience in the geotechnical engineering and materials testing/inspection profession to his role and is well known for his commitment to client service, ensuring that projects are executed with thoroughness and attention to detail. He has successfully managed numerous on-call contracts for various municipalities in the greater Los Angeles area. Additional professional staff will include principal geotechnical engineers Anthony Mazzei, Mark Russell, and Renee Morales, project engineer Meng-Wei Lu and staff geologist Linda Pineda. Materials testing and special inspection services will be provided by Earth Systems' well-seasoned staff of field technicians and special inspectors certified as appropriate by the International Code Council (ICC), the American Concrete Institute (ACI), the National Institute for Certification in Engineering Technologies (NICET), and the California Department of Transportation (Caltrans). The qualifications and educational backgrounds of the project team are presented below; full resumes of the professional staff can be found in the Appendix. It is anticipated that key project staff will be available for the duration of the contract.

25+ Years of Experience

Certified Engineering Geologist, State of California (No. 2648)

Professional Geologist, State of California (No. 9085)

Certified Nuclear Gauge Radiation Safety Officer

CHRISTOPHER F. ALLEN, PG, CEG
ENGINEERING GEOLOGIST, PROJECT MANAGER (POINT OF CONTACT)

A certified engineering geologist with over 25 years of experience, Christopher (Chris) Allen is the managing principal of Earth Systems' Pasadena office, which services projects in the greater Los Angeles area. He is experienced with management of on-call contracts, as Earth Systems has provided geotechnical services for numerous local jurisdictions on an on-call basis. Mr. Allen works closely with owners, the design professional team, contractors, and project stakeholders to ensure delivery of high-quality services in a timely manner. He is known for his excellent project and team management skills, as well as his knowledge and understanding of both the design phase and construction phase aspects of site development. During the design phase process, he supervises field investigations and provides consultation regarding geotechnical and geologic issues that may impact the project. During project construction, he oversees geotechnical observation of grading operations, pavement construction (including rehabilitation), and materials testing. In keeping with Earth Systems' philosophy of hands-on experience, Mr. Allen has served as a City of Los Angeles Deputy Soils and Grading Inspector for many years and is certified by ICC as a Soils Special Inspector. He received a Bachelor of Science degree in geology from California State University, Northridge. He has been employed with Earth Systems since 2005.

Mr. Allen has a wealth of experience working on a wide range of projects in Pasadena, Altadena, and the greater Los Angeles area. His expertise includes geotechnical investigations, geologic hazards assessment, and oversight of geotechnical observation, materials testing and special inspection for projects under construction.

As project manager, Mr. Allen will:

- Serve as Earth Systems' contact with ALD's project manager and other members of the design team
- Select an appropriate project team and familiarize them with the project requirements, schedule, and budget
- Schedule and supervise geotechnical field investigations
- Review the field data and determine appropriate laboratory testing programs
- Schedule and coordinate special inspection and materials testing services
- Review daily field reports of special inspections, sampling, and materials testing
- Provide resolution of inspection issues
- Monitor the project schedule, budget, and milestones
- Coordinate with Earth Systems' Chief Financial Officer, Alexis Huebner, with respect to financial analysis or questions
- Assure that the completed work product in a timely manner and conforms to regulatory requirements, the project proposal, and client and design team expectations

ANTHONY MAZZEI, PE, GE
Principal Geotechnical Engineer

A registered civil and geotechnical engineer with 38 years of experience, Anthony Mazzei will be responsible for geotechnical analysis and preparation of geotechnical engineering reports. Mr. Mazzei has extensive experience with on-call geotechnical engineering contracts and public works projects throughout Los Angeles, Ventura and Santa Barbara Counties. He is a well-respected local expert due to his knowledge and understanding of both the geotechnical engineering and materials testing/ inspection aspects of project construction. During the design phase process, he supervises geotechnical engineering investigations and provides consultation regarding geotechnical issues that may impact the project. During project construction he provides technical assistance during grading operations, including development of mitigation measures for situations such as unstable soils and high groundwater conditions. Mr. Mazzei is a registered professional civil and geotechnical engineer in the State of California, a registered civil engineer in Arizona, and a Qualified SWPPP Developer/Qualified SWPPP Practitioner. Mr. Mazzei received a Bachelor of Science degree in civil engineering from the University of Pittsburgh, and a Master of Science degree in geotechnical engineering from Arizona State University.

38+ Years of Experience

Registered Professional Engineer (Geotechnical), State of California, (No. 2823)

Registered Professional Engineer (Civil), State of California, (No. 67802)

Registered Professional Engineer (Civil) State of Arizona, (No. 24415)

Qualified SWPPP Developer/Qualified SWPPP Practitioner (QSD/QSP), CASQA (Certificate No. 21300)

RENEE S. MORALES, PE, GE
Geotechnical Engineer

Ms. Morales is a senior geotechnical engineer with over 12 years' experience in the geotechnical engineering field. She is responsible for client coordination, scheduling of services, and project management. She has performed geotechnical investigations for public works, commercial, and residential projects throughout the San Francisco Bay Area, central California, and southern California. Ms. Morales has experience in earthwork and mass grading operations, foundation design, soil stabilization, pavement design and rehabilitation, ground improvement, surcharge and slope stability. Her foundation design experience ranges from design and observation of shallow and deep foundations, conventional and post-tension mats, augercast piles, drilled displacement columns and stone columns. Her responsibilities as a senior engineer include preparation of geotechnical proposals and cost estimates for geotechnical investigations and geotechnical testing and observations services to preparation of geotechnical reports, including seismic hazards, engineering analysis, evaluation of in-situ data, foundation and project recommendations.

12+ Years of Experience

Registered Professional Engineer (Geotechnical), State of California, (No. 3170)

Registered Professional Engineer (Civil) State of California, (No. 82772)

MARK RUSSELL, PE, GE
Geotechnical Engineer

Mark Russell is a registered civil engineer and registered geotechnical engineer with over 30 years of experience in the Los Angeles area. His role for this project will be to provide geotechnical analysis and support for design phase geotechnical engineering investigations. His expertise includes shallow and deep foundations, geotechnical aspects of deep excavations and other site grading, ground modification, static and dynamic slope stability analysis, settlement analysis, liquefaction analysis and mitigation, and pavement construction/rehabilitation including new construction, full-depth reclamation, overlays and recycled materials. He has published several technical papers on the subjects of compaction grouting for liquefaction mitigation, use of cement-hardened materials in hydraulic structures, and soil vapor extraction and bioventing. He is also a Registered Environmental Assessor with many years of experience in environmental assessment studies. He obtained a Bachelor of Science degree in Civil Engineering from the University of California at Davis in 1983, and a Master of Science degree in Civil Engineering from California State University Long Beach in 1993.

30+ Years of Experience

Registered Professional Engineer (Geotechnical), State of California, (No. 23933)

Registered Professional Engineer (Civil) State of California, (No. 41463)

Registered Assessor (Environmental) State of California, (No. 05013)

9+ Years of Experience

Registered Professional Engineer (Civil), State of California (No. 89106)

Registered Professional Engineer (Geotechnical), State of California (No. 3249)

ACI Concrete Field Testing Technician, Grade 1

Certified Nuclear Gauge Operator

MENG WEI LU, PE, GE
Project Engineer

Meng Wei Lu is a registered civil and geotechnical engineer responsible for project management and technical oversight of field operations for design phase geotechnical investigations. He has worked extensively on projects requiring deep excavation, earth retention, mitigation of seismic-induced settlement, soil stabilization, deep foundations, and underpinning. In keeping with Earth Systems' philosophy of hands-on experience, Mr. Lu has spent considerable time in the field, performing functions such as drill logging, CPT supervision, soil sampling, grading observation and testing, concrete batch plant inspection, and asphalt batch plant inspection and is therefore familiar with all aspects of the site development process. He obtained a Bachelor's degree in Civil Engineering from the University of Taiwan and a Master's Degree in Civil Engineering with a concentration in geotechnical engineering from the University of California, Los Angeles. He has been employed with Earth Systems since 2015.

6+ Years of Experience

Certified Nuclear Gauge Operator

40-hour Hazardous Materials (HAZWOPER) training

LINDA PINEDA
Staff Geologist

Staff geologist Linda Pineda will provide field services related to geotechnical and geologic investigations, as well as geotechnical testing and observation during construction. Ms. Pineda is experienced in drill logging, soil and rock classification, GIS data analysis, percolation and infiltration testing, environmental characterization, and geologic mapping. She is knowledgeable regarding environmental assessment, with experience in groundwater monitoring, evaluation of well data, and soil and groundwater remediation techniques such as excavation, vapor extraction, and injection wells. Her field experience includes geotechnical observation for large-scale earthwork operations, and geotechnical testing using both nuclear gauge and sand cone methods. She performs observation of deep foundation construction consisting of cast-in-drilled-hole (CIDH) piles, driven piles, micro-piles. She obtained a Bachelor's degree in Earth Science from the University of California, Santa Cruz, and a Master's Degree in Geology from California State University, Long Beach.

Full resumes of the professional staff can be found in Appendix A.

TECHNICAL STAFF

Earth Systems offers a technical team of well-seasoned, experienced technicians/inspectors who have worked in the Los Angeles region for many years. Earth Systems' role during the construction process will be to document that the materials used, and methods of installation meet the requirements of the project plans, specifications and applicable codes. The field team will be supervised by project manager Christopher Allen, who will oversee all aspects of construction materials testing and special inspection.

STEPHEN DEBOLT
Laboratory Testing Manager

As Laboratory Testing Manager, Mr. DeBolt is responsible for overall laboratory operations and quality assurance. He ensures the maintenance and accurate calibration of the laboratory testing equipment, with calibrations are traceable to the National Institute of Standards and Technology (NIST). He is responsible for coordinating certifications and inspections with various oversight agencies, including the Division of the State Architect (DSA), the Cement and Concrete Reference Laboratory (CCRL), and the AASHTO Materials Reference Laboratory (AMRL), and the California Department of Transportation (Caltrans). He trains laboratory personnel to perform testing in strict accordance with ASTM, Caltrans, AASHTO, and other appropriate laboratory standards. He is responsible for managing and conducting daily operations of the materials testing lab, including performing soils and concrete testing, generating and reporting data, coordinating equipment calibration and verification of testing apparatus, equipment procurement, maintenance and repair, test method development, sample inventory and management, test method training for new personnel, and laboratory technician management. When not in the laboratory, Mr. DeBolt performs field functions such as soil compaction and concrete sampling/testing.

CERTIFICATIONS: ACI Concrete Field Technician Certification, ACI Concrete Laboratory Testing Technician, ACI Aggregate Testing Technician, CPN International Radiation Safety and Use of Nuclear Gauges Certification, National Institute for Certification in Engineering Technologies Geotechnical Engineering Technology Construction, National Institute for Certification in Engineering Technologies Construction Materials Testing Concrete, Caltrans, Multiple Field and Laboratory Test Methods

FIELD AND LABORATORY STAFF

For projects under construction, we will utilize highly qualified and experienced field staff that have provided excellent service for numerous past public works projects. They will provide testing in accordance with applicable standards, and each technician or inspector assigned will be certified in the appropriate specialty for the work being performed. Our field staff is known for providing exemplary service, demonstrating their ability to work collaboratively with project inspectors, design consultants, and contractors alike, and earning outstanding commendations for their work. Their familiarity with ASTM, CBC and Caltrans requirements, protocols, and various software programs used during construction will facilitate the smooth execution of the soils and materials testing aspects of projects. The team includes the following members (right).

SALLY SOMWANGTAWIL
Field Technician/Special Inspector
18 years of experience
- ICC-certified Soils Special Inspector
- Approved City of Los Angeles Deputy Soils and Grading Inspector
- ACI-certified concrete technician
- Trained in confined space awareness
- Cal/OSHA certified as a Competent Person for Trenching and Excavation

JARED LARGE
Field Technician/Special Inspector
15 years of experience
- ACI-certified
- NICET-certified
- ICC-certified (soils special inspection, reinforced concrete, structural masonry, fire-proofing)
- Caltrans-certified
- Certified nuclear gauge operator

KARIM TADROUS
Special Inspector
4 years of experience
- ACI-certified
- ICC-certified (reinforced concrete, pre-stressed concrete, structural masonry, fireproofing, bolting)

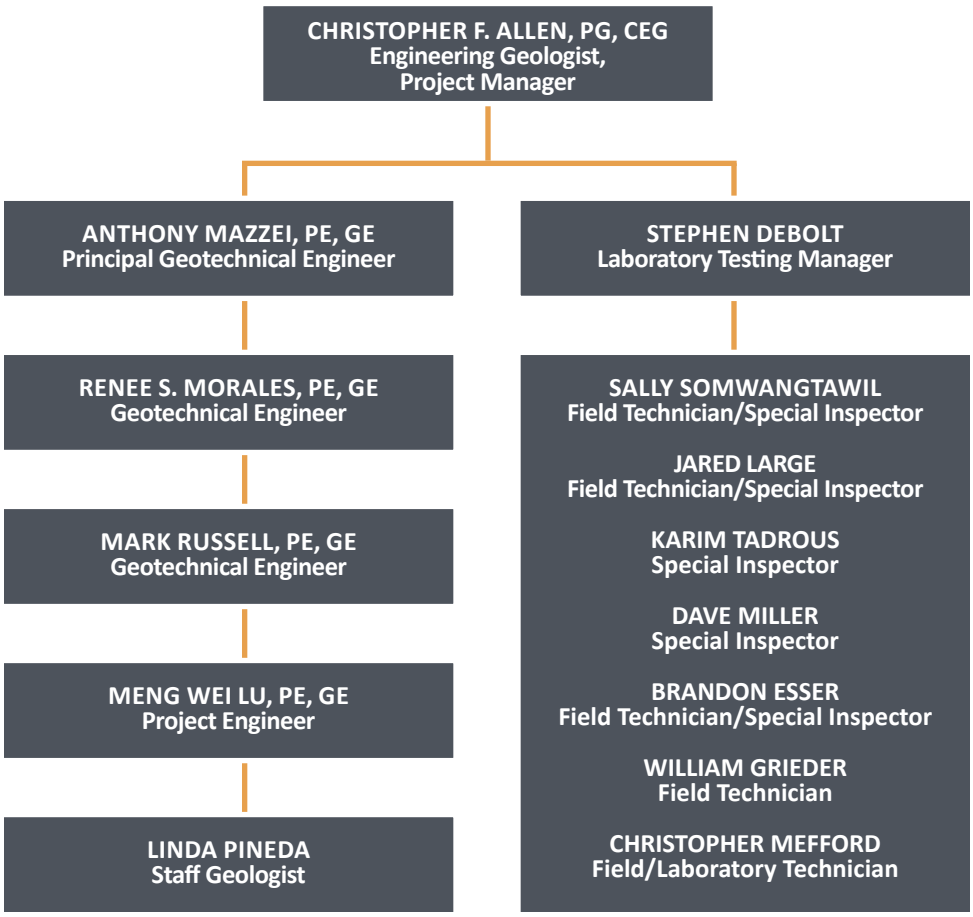
DAVE MILLER
Special Inspector
35 years of experience
- AWS-certified (structural steel and welding)

BRANDON ESSER
Field Technician/Special Inspector
5 years of experience
- ICC-certified (soils special inspection)
- Certified nuclear gauge operator
- Experienced laboratory technician proficient in numerous ASTM test methods

WILLIAM GRIEDER
Field Technician
3 years of experience
- Certified nuclear gauge operator
- ACI-certified field technician
- Caltrans-certified

CHRISTOPHER MEFFORD
Field/Laboratory Technician
2 years of experience
- Certified nuclear gauge operator
- ACI-certified field technician
- Caltrans-certified

ORGANIZATIONAL CHART



SUBCONTRACTORS

As Earth Systems is a full-service geotechnical/materials testing engineering firm with a comprehensive materials testing laboratory, we do not anticipate the need for subcontractors to fulfill any core services that would be associated with this contract. For specialty services or in the event that steel or other material fabrication occurs out of the local area, we have an extensive network of subcontractor relationships to provide out-of-area special inspection services. When retaining subconsultants, we ensure that their qualifications meet the requirements of the client as well as our own quality expectations. All subcontracted services are scheduled through our local office, with the scope of work and fees reviewed and approved prior to the start of work. Reports generated by subcontractors are thoroughly reviewed by the project manager for accuracy and completeness.

SECTION III - QUALIFICATIONS

With many decades of experience in Pasadena, Altadena and Los Angeles County, Earth Systems has been providing investigation and analysis related to soil, groundwater, and geologic conditions, as well as materials testing and special inspection for projects under construction, for over 50 years. Our goal for every project is to be responsive to our client's objectives, budget, and time-frame; to use our expertise and experience to provide thorough and technically accurate assessments; to provide rapid response to requests for services; and to ensure that our thoroughness and attention to detail provide assurance to our clients that the geotechnical aspects of their projects are addressed in accordance with current professional practice as well as local jurisdictional requirements. We offer full-service, Caltrans approved materials laboratories and a highly qualified and experienced staff of special inspectors and technicians to help assure that construction proceeds smoothly and that the requirements of the project plans and specifications are met. Responsive service is the hallmark of Earth Systems' reputation. Our local geotechnical engineering and materials testing professionals have an excellent track record for providing thorough, high-quality services for hundreds of projects.

EXPERIENCE WITH LOCAL MUNICIPALITIES

For over five decades, Earth Systems has provided geotechnical engineering services for municipalities and other agencies throughout southern California. Local municipalities for which we have provided services for capital improvement and similar projects include the following:

- City of San Buenaventura (Ventura)
- City of Baldwin Park
- City of Cudahy
- City of La Puente
- City of Pasadena
- City of Manhattan Beach
- City of Montclair
- City of South El Monte
- City of Los Angeles
- City of Santa Barbara
- City of Camarillo
- City of Oxnard
- City of Santa Paula
- City of Simi Valley
- City of Thousand Oaks
- City of Goleta
- City of Carpinteria
- City of Santa Maria
- County of Los Angeles
- County of Orange
- County of Ventura
- County of San Luis Obispo
- County of Santa Barbara
- California Department of General Services
- California Judicial Council
- Water Conservation Authority
- City of Palmdale
- City of Lancaster

SERVICES

Geotechnical engineering and geology services available through Earth Systems include the following:

- Design-level geotechnical engineering investigations
- Geotechnical and geologic feasibility studies
- Slope stability evaluations
- Fault location studies
- Liquefaction and seismicity evaluation
- Seismic refraction/rippability
- Geotechnical criteria for shallow and deep foundations, including caissons, driven piles, and micropiles
- Criteria for earth retention structures and embankments
- Engineering analysis of settlement-reduction methods
- Rock/pavement coring
- Pavement deflection studies
- Pavement assessment and development of geotechnical criteria for pavement construction and rehabilitation, including new construction, overlays, recycled materials, permeable pavers, and stabilization of poor subgrade conditions
- Evaluation of acceptability of construction materials
- Development of Material Sampling, Acceptance, and Independent Assurance Plans
- Infiltration testing for low-impact development (LID) improvements
- Failure investigations of foundations, retaining walls, slopes, and pavement
- Peer review services

Materials testing and special inspection services available through Earth Systems include the following:

- Sampling and testing of soils, aggregate base, and asphalt concrete
- Foundation excavation observation
- Sampling of potentially contaminated soils and testing for hydrocarbons, other petroleum products, and lead
- Sampling and testing of asphalt concrete
- Sampling and testing of concrete; including slump, casting test cylinders, and compression testing
- Sampling and testing of reinforcing steel
- Sampling and testing of masonry; including block compliance, prisms, mortar strength, grout strength and cores of completed construction
- Batch plant inspection of concrete and grout
- Special inspection of concrete
- Special inspection of masonry
- Special inspection of shop and field welding
- Special inspection of high strength bolts
- Special inspection of paints and coatings
- Special inspection of driven or drilled piles
- Laboratory testing of construction materials including soil, asphalt, concrete, masonry, grout, steel, fabrics, adobe and other specialty materials
- Testing or inspection of fabrics, or other various construction materials
- Asphalt and concrete mix design review

FULL-SERVICE MATERIALS TESTING LABORATORIES

The Earth Systems laboratories have the capacity to perform hundreds of tests upon soils, concrete, asphalt, steel, masonry, and other building materials. Earth Systems laboratories have been certified or inspected by the U.S. Army Corps of Engineers, the Division of the State Architect (DSA), the Cement and Concrete Reference Laboratory (CCRL), and the AASHTO re:source (formerly AMRL). We also maintain several Caltrans-approved laboratories. Having multiple laboratories allows us to control sample handling, chain of custody, and quality of tests so accurate results can be assured. Earth Systems participates in the Caltrans Reference Sample Program, the Cement and Concrete Reference Laboratory (CCRL) and AASHTO re:source Proficiency Sample Programs for Concrete, Soil, Aggregate and Rebar. The laboratory equipment is calibrated annually, and the calibrations are traceable to the National Institute of Standards and Technology (NIST). We maintain our own CBR and R-value (resistance to deformation under repeated loading) test equipment, allowing us to provide timely test results without shipping samples to an out-of-town facility. We have mobile laboratory equipment for soil, concrete, and asphalt concrete testing. Tests are conducted by trained technicians/inspectors in accordance with ASTM, Caltrans, AASHTO, and other appropriate laboratory standards.

SCOPE OF SERVICES

For this contract, which will involve renovation/ additions to existing structures, Earth Systems is available to provide geotechnical and/or geologic investigations, forensic studies if needed, and materials testing/special inspection. The following are brief discussions of what each type of service entails.

GEOTECHNICAL ENGINEERING INVESTIGATIONS

Geotechnical engineering investigations are design-level studies intended to provide sufficient data and criteria to allow design of the project and meet jurisdictional requirements. To evaluate subsurface conditions, typically a series of borings are drilled to depths of interest, which will vary based upon the type of project, the grading concept, and the anticipated subsurface profile. Borings may be drilled using hollow-stem auger techniques or using Cone Penetrometer methods. For hollow stem borings, standard penetration tests are typically performed (ASTM D 1586) and soil samples are obtained using a ring-lined barrel sampler (ASTM D 3550). Bulk soil samples are also obtained from the auger cuttings.

Prior to initiating any subsurface exploration, Earth Systems coordinates with Underground Service Alert (USA) for underground utility coordination and determination of the locations of other subsurface features that could potentially be impacted by drilling operations. Soil samples are tested in the laboratory to determine a variety of soil properties, depending upon the type of project, the proposed development concept, and the materials encountered. Such tests as unit weight and moisture, plasticity index, grain size determination, maximum density versus optimum moisture, expansion index, one-dimensional consolidation, angle of shearing resistance, R-value, and unconfined compressive strength may be performed. All laboratory testing is performed in our accredited laboratories by trained technicians and according to ASTM or other applicable standards. The field and laboratory data are reviewed by a Registered Geotechnical Engineer and/or a Certified Engineering Geologist and evaluated with respect to development of geotechnical criteria for the proposed project.

Geotechnical engineering investigations and reports comply with the requirements of Sections 1803.1 through 1803.6 and J104.3 of the applicable edition of California Building Code (CBC). Geotechnical engineering investigations are supervised by qualified and experience geotechnical professionals who develop programs for subsurface exploration, laboratory analysis, and data evaluation.

GEOLOGIC HAZARD STUDIES

Projects involving a geologic scope are supervised by a Certified Engineering Geologist. These may be stand-alone reports or may be incorporated into the geotechnical investigation. Depending upon the type of project, the work may include a review of geologic literature and maps, air photo interpretation, seismic refraction surveys, fault investigation, excavation of exploratory trenches, borings and down-hole logging, and various types of software analysis. Typical projects include geologic hazard studies, landslide evaluations, ocean bluff retreat studies, wave run-up analyses, and geophysical explorations. Geologic hazards reports comply with Section 1803.6 of the CBC, California Geological Survey Note 48, and Special Publications 42 and 117, as applicable.

FORENSIC STUDIES

Occasionally, issues with an existing structure occur in the form of cracks, settlement, or other forms of distress. Causes can range from deficiencies in construction materials, improper construction techniques, settlement of artificial fill soils, or other factors. Identification of the cause of distress is key to developing an appropriate mitigation strategy. Earth Systems has a wide array of forensic services and tools available to assist in forensic evaluation, including floor level surveys, unreinforced masonry testing, concrete evaluation, structure load testing, tendon/reinforcing steel location, pulse velocity testing, and sounding/echo impact testing.

CONSTRUCTION OBSERVATION, SPECIAL INSPECTION AND MATERIALS TESTING SERVICES

During construction of projects, Earth Systems can provide geotechnical consultation and sampling, testing and/or special inspection of construction materials including soil, concrete, asphalt concrete, masonry, steel, bolting, and spray-applied fireproofing. This may involve site visits by a qualified engineer or geologist, sampling, testing and/or special inspection of materials by a qualified field technician or special inspector, and laboratory testing of soil materials as necessary to support the project. As part of these tasks, resolution of issues associated with the geotechnical properties of the site and construction materials may be necessary; we are available to attend meetings and consult with the City to discuss any such issues.

Scheduling of services is conducted through our dispatcher, who is available (in person, not a message machine) from 7:00 a.m. to 5:00 p.m. Monday through Friday. Sampling and testing will typically be conducted at the direction of the client or their authorized representative. Daily reports detailing the progress of the work and the services provided will be left at the site. The results of the tests/inspections will be provided in periodic summary reports. Materials test reports will be provided upon completion of the tests. Results of materials tests are generally available within 48 hours of the material's submittal. All test reports will be prepared or reviewed by Earth Systems' project manager Christopher Allen.

Test reports will be sent to the client; the reports will include all of the test results, regardless of the satisfactory or unsatisfactory outcome of the tests. The reports will indicate the location of samples, any special sampling procedures used (as applicable) and will clearly indicate what materials were sampled and what test methods were used. Concrete tests will show the specified design strength. The test reports will contain a definitive statement as to whether or not the materials tested comply with the project plans and specifications, and other requirements as appropriate. Any deviations will be promptly reported. Test results not meeting the project requirements will be logged separately and the retests or remedial measures taken will be reported. All reports are reviewed by the project manager, and peer-reviewed by another professional staff member to assure report accuracy and quality. We are committed to deliver our work products in a timely manner and are always available and responsive to phone or email communications as well as requests for meetings or on-site consultation.

QUALITY ASSURANCE/QUALITY CONTROL

All geotechnical and materials testing services will be performed in accordance with the California Building Code (CBC) requirements and standards for public improvement projects, project plans and specifications, and local jurisdictional requirements as applicable. Geotechnical engineering reports comply with the requirements of Sections 1803.1 through 1803.6, and J104.3 and J104.4 of the applicable edition of California Building Code (CBC) and California Geological Survey (CGS) Special Publication 117, as applicable; geologic hazards reports comply with Section 1803.7 and J104.4 of the CBC, CGS Note 48, and CGS Special Publications 42 and 117, as applicable. Geotechnical engineering investigations are supervised by Registered Geotechnical Engineers who develop programs for subsurface exploration, laboratory analysis, and data evaluation. Projects involving a geologic scope are supervised by a Certified Engineering Geologist. All reports are peer-reviewed by another staff professional experienced with similar projects and certified or licensed in the appropriate discipline.

For materials testing and special inspection projects, all work is overseen by the project manager, who visits the sites and reviews the inspection/testing program with field and laboratory personnel. All reports are reviewed by the project manager, and peer-reviewed by another professional staff member to assure report accuracy and quality.

MONITORING OF BUDGETS AND SCOPES

Earth Systems recognizes the need for budget control on publicly funded projects and works collaboratively with our public agency clients to control costs associated with geotechnical and materials testing/inspection services, and we understand the need to adhere to the project's allocated budget. Geotechnical and geologic investigations are typically provided on a fixed fee basis, while materials testing, special inspection and core sampling services are provided on a time-and-materials basis. Prior to the start of the work, budget estimates are developed based upon reviews of project plans and contractor schedules for various aspects of the sampling and testing program. Placement of materials, the schedule of the contractor, and the progress of the work are critical factors that can affect fees. Other variables include the location of material fabrication, identification of construction materials, and the need for retests. To avoid unanticipated budget overruns, we implement a budget tracking system. Hours for observation or sampling/testing are estimated based upon the contractor's construction schedule, and are tracked by category, i.e. soil, concrete, asphalt concrete, etc. If the progress of the work begins to deviate significantly from that shown in the project schedule for any category, thus potentially affecting fees, the client is notified. Similarly, if other situations such as unidentified materials, nonconforming materials, or excessive retesting occur, he or she is informed and apprised as to the effect upon the project budget. This affords the client the opportunity to convene with the contractor to discuss the project schedule or other factors that may affect testing or observation fees, and measures that can be taken to better control the progress of the work.

COMMUNICATION AND CLIENT SERVICE

Excellent client service is the hallmark of Earth Systems' reputation and has earned us extensive commendations and loyalty from clients and stakeholders. We respond rapidly to client requests and our goal is to always work collaboratively with clients, the design team, and contractors while meeting tight schedules and deadlines. We accomplish this by clear communication, always keeping our clients and other stakeholders apprised of project milestones and being respectful of the project schedule and budget. Should issues arise on a project, we immediately notify the client and work with all involved parties to come to a resolution that is practical, constructible, cost-effective, and minimizes project delays. We are committed to deliver our work products in a timely manner and are always available and responsive to phone or email communications as well as requests for meetings or consultation.

SECTION IV - COST SECTION

FEE SCHEDULE (Effective January 1, 2024)

PERSONNEL	HOURLY RATE
Principal Professional	$230.00
Associate Professional	$220.00
Senior Professional	$200.00
Project Professional	$180.00
Staff Professional	$144.00
Technician	$95.00
Technician, Prevailing Wage*	$140.00
Special Inspector	$100.00
Special Inspector, Prevailing Wage*	$145.00
Los Angeles Deputy Inspector	$120.00
Los Angeles Deputy Inspector, Prevailing Wage*	$140.00
Special Services Technician	$120.00
Technical Assistant	$100.00
Clerical/Administrative	$95.00

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

BASIS OF CHARGES, GENERAL

1. Field technician services for regular workdays for non- Prevailing Wage projects are subject to a 2-hour minimum charge and billed in 2-hour increments. Field services for regular workdays for Prevailing Wage projects are subject to a 4-hour minimum charge and billed in 4-hour increments. Charges are calculated in minimum one-hour increments and accumulate on a portal-to portal basis.
2. Work performed on Saturdays, night work, and for premium hours (before 7 a.m., after 5 p.m. or more than 8 hours in one day) for personnel are at time and one-half; Sundays and holidays are at double time. Work performed on weekends, holidays, and when work starts outside of regular business hours is subject to a 4-hour minimum charge.
3. A 2-hour cancellation charge applies if scheduled inspection or testing is cancelled after 3 p.m. the day prior to the scheduled work.
4. State regulations requiring electronic submittal of Certified Payroll to DIR for prevailing wage projects will be assessed a fee of $70.00/week. Additional time required to address specific requests related to DIR/Labor Compliance will be charged at the clerical/administrative services rates.
5. Projects will be invoiced a Trip Charge based on proximity to the servicing office. Nuclear density gauge charge: $12.50/hour. Weekly special inspection report charge: $120.00
6. Subcontracted services, materials, rental equipment, out of town travel, and expenses are charged at cost plus 20 percent. Fixed per diem rates for specific projects can be provided upon request.
7. Report copies: $25.00 each (minimum). Posting of electronic documents to project websites will be charged at clerical/administrative services rate.
8. Invoices are payable upon presentation. Invoices thirty days past due are subject to a service charge of one and one-half percent per month. Payments using a credit card will be assessed a 3% surcharge.
9. Rates will remain in effect until December 31, 2024. An annual escalation rate of 3 percent will be applied to hourly rates for professional staff and non-prevailing wage services; rate increases for prevailing wage services will be based upon determinations by the State of California Department of Industrial Relations.

BASIS OF CHARGES

Rates for field work such as materials sampling, construction inspection, and field evaluation will be in accordance with the Personnel Rates listed in the basic Fee Schedule. The below listed rates apply to standard ASTM test methods. An additional hourly charge ($90.00/hr.) will be applied for cutting, capping, or other preparation of non-standard samples and, where noted, for steel samples.

SOILS

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

Atterberg Limits: Liquid Limit or Plastic Limit	$130.00
Atterberg Limits: Plasticity Index	$250.00
California Bearing Ratio, 3 points; incl. ref maximum density	$750.00
California Bearing Ratio, 9 points; incl. ref maximum density	$1,050.00
Consolidation, one dimensional	$250.00
Consolidation, timed, per point	$85.00
Corrosivity Testing	$240.00
Direct Shear, 3 points minimum	$300.00
Expansion Index Test	$200.00
Maximum Density and Optimum Moisture: 4" Mold	$260.00
Maximum Density and Optimum Moisture: 6" Mold	$310.00
Maximum Density and Optimum Moisture: California Impact	$280.00
Moisture and Unit Weight Determination, from ring samples	$40.00
Moisture Only	$30.00
Permeability Tests, constant head or falling head	Per Quote
R-Value	$400.00
R-Value, CA State Hwy/set of 3, Cement, Lime, Other additives	$450.00
Hydro Collapse Potential	$125.00
Sieve/Hydrometer Analysis, assumed specific gravity, w/200 wash	$200.00
Sieve Analysis, Aggregate Base/Subbase	$165.00
Sieve Analysis 200 wash only	$120.00
Sieve Analysis with wash	$180.00
Sieve Analysis, Oversize Material	$210.00
Specific Gravity	$185.00
Swell Test, undisturbed	$185.00
Swell Test, remolded	$235.00
Unconfined Compressive Strength, untreated	$165.00
Unconfined Compressive Strength, lime or cement treated	$525.00

THERMAL RESISTIVITY TESTS

Concrete, 1 point w/moisture content (requiring special collection procedure)	Per Quote
Field Testing using Thermal Resistivity Meter	Per Quote
Soil, per moisture point, per sample	Per Quote
Soil, 3 moisture points with dry-out curve, per sample	Per Quote

CONCRETE AGGREGATE

Abrasion, L.A. Rattler, 100 and 500 revolutions	$300.00
Absorption, Coarse Aggregate	$100.00
Absorption, Fine Aggregate	$150.00
Clay Lumps and Friable Particles in Aggregate	$150.00
Cleanness Value of Coarse Aggregate	$150.00
Crushed Particles, each size	$150.00

Durability Index, Coarse or Fine Aggregate	$200.00
Flat and Elongated Particles in Aggregate	$150.00
Organic Impurities in Fine Aggregate	$100.00
Potential Reactivity of Aggregate by Chemical Method, each size	Per Quote
Sand Equivalent	$150.00
Sieve Analysis, washed	$200.00
Soundness, Sodium Sulfate, 5 cycles	$500.00
Specific Gravity, Coarse Aggregate	$150.00
Specific Gravity, Fine Aggregate	$150.00
Uncompacted Void Cntnt of Fine Aggregate Angularity, w/fine Aggregate SG	$280.00
Unit Weight of Aggregate	$150.00

CONCRETE CYLINDERS, BEAMS AND CORES

Compression Test of Cast Cylinders	$40.00
Compression Test of Cored Samples, cored at laboratory	$100.00
Compression Test of cores delivered by others	$85.00
Compression Test of Lightweight Concrete	$40.00
Density of Concrete Cylinders	$80.00
Density of Hardened Concrete	$110.00
Flexural Strength, Simple Beam with Third Point Loading	$190.00
Grading of Shotcrete Cores	$220.00
Sample Storage, monthly per sample	$30.00
Shrinkage, set of 3	$410.00
Unit Weight of Lightweight Concrete	$110.00
Enviro. Recycling Fee, per cylinder, core or beam	$2.00
Enviro Recycling Fee, per flex beam	$5.00
Enviro Recycle Fee/Form Stripping, per shotcrete panel/beam	$50.00

MASONRY

Absorption of Block, set of 3	$175.00
Compression Test, 2” x 4” Mortar Cylinders	$45.00
Compression Test, 3” x 3” x 6” Grout Samples	$45.00
Compression Test on Block, set of 3	$175.00
Compression Test on Grouted Prisms	$300.00
Compression Test on Masonry Cores	$85.00
Coring of Grouted Masonry by Subcontractor	cost + 20%
Masonry Shrinkage, set of 3	$320.00
Moisture Content of Block as received, set of 3	$135.00
Shear Test on Masonry Cores, 2 faces	$180.00
Specific Gravity and Unit Weight of Block, set of 3	$180.00
Enviro Recycling Fee, per masonry prism	$10.00
Enviro Recycling Fee, per mortar or grout sample	$2.00

FIREPROOFING

Fireproof Bond Test	Per Quote
Fireproofing Density Test	Per Quote

ASPHALT CONCRETE

Bulk Specific Gravity of Compacted Specimens and Core Samples	$80.00
Compaction of Lab Samples, CA Kneading Compactor, set of 3	$450.00
Compaction of Lab Samples, CA Kneading Compactor, set of 5	$700.00
Compaction of Lab Samples, Marshall Method set of 3 –(50 blows/side)	$360.00

Compaction of Lab Samples, Marshall Method set of 3 –(75 blows/side) $460.00
Extraction of Oil from A.C. Mixtures ..... Per Quote
Extraction of Oil from Rubberized Mixtures ..... Per Quote
Gyratory Compactor, per set of field mixed asphalt ..... Per Quote
Hamburg Wheel Tracker Test, per set of field mixed asphalt ..... Per Quote
Ignition Oven Binder Content, after initial correction value is determined $275.00
Ignition Oven Binder Content Corr Value /mix design, average of 3 ..... $1,400.00
Ignition Oven Gradation Correction Value, per mix design ..... Per Quote
Moisture Content $60.00
Sieve Analysis of Extracted Aggregate $285.00
Sieve Analysis of Ignition Oven Residue $270.00
Specific Gravity, Theoretical Maximum, Rice Method $170.00
Stability and Flow, Marshall Apparatus, set of 3 ..... $260.00
Stabilometer, Hveem S-Value, set of 3 ..... $350.00
Enviro Recycling Fee, per sample $2.00
Enviro Recycling Fee for Extracted Oils $30.00

REINFORCING AND STRUCTURAL STEEL

Bend Test of Welded Specimen, sample preparation not included $180.00
Pipe Flattening Test, sample preparation not included $180.00
Reinforcing Steel Coupler Tensile and Slip Tests $330.00
Structural Steel Bend Test, sample preparation not included $180.00
Structural Steel Machining/Sample Preparation ..... cost + 20%
Structural Steel Tensile Test, sample prep not included $185.00
Tensile and Bend Tests of Reinforcing Bar, #2 through #9 ..... $200.00
Tensile and Bend Tests of Reinforcing Bar, #10 through #18 ..... Per Quote
Enviro Recycling Fee, per sample $2.00

BOLT TESTS

Bolt Tests, chemical or mechanical ..... cost + 20%

WELDER QUALIFICATION

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

EQUIPMENT/CHARGES (Does Not Include Personnel)

110-volt Portable Electric Generator $85.00/day
Anchor Pull Test Equipment ..... $25.00/hr.
Bailer (disposable) w/dedicated rope ..... $25.00/ea.
Concrete and Asphalt Concrete Coring Equipment ..... cost + 20%
Concrete Slab Moisture Transition Kit ..... $50.00/ea.
Conductivity Meter $80.00/day
Cut-Off Saw ..... cost + 20%
Double Ring Infiltrometer (per set) $150.00/day
Drum Dolly $25.00/day
Drums ..... $75.00/ea.
Dynamometer, In-line Scale ..... Per Quote
Hammer Drill ..... Per Quote
Hand Auger/Sampler Equipment $50.00/day
Lock n, Load VOC Sample Pres. Sys. ..... $20.00/ea.

Magnetic Particle Equipment	Per Quote
Manometer	$100.00/day
Mini-Troll Groundwater Level Transducer	$100.00/day
Mobile Laboratory	Per Quote
Nuclear Density Equipment, per hour	$12.50/hr.
Nuclear Density Equipment, per test	$10.00
Paint Thickness Meter	Per Quote
Percolation Tank System and Trailer	Per Quote
Personal Protective Equipment Level C	Per Quote
Pile Driving Equipment (for pile load testing)	Per Quote
Pile Load Testing Equipment	Per Quote
Pulse Velocity Meter	$100.00/day
Rebound Hammer (Schmidt Hammer)	$50.00/day
Reinforcing Steel Locating Equipment (DR-Meter)	$100.00/day
Relative Humidity Meter	$100.00/day
Safety and Specialty Equipment	Per Quote
Sampling Consumables	Per Quote
Skidmore Bolting Calibration Equipment	$250.00/day
Slope Inclinometer Equipment, per hole	Per Quote
Soil Sampling Containers (metal)	$15.00/ea.
Soil Sampling Containers (glass)	$5.00/ea.
Tape Extensometer	Per Quote
Tension Equipment	$60.00/day
Torque/Tension Equipment	$70.00/day
Water Level Indicator	$45.00/day
Winsor Probe, set of 3	Per Quote
Per Diem	Per Quote
DIR Compliance/eCPR, per week	$70.00
DSA Box Posting, ea.	$100.00
DSA Lab Compliance, per week	$50.00
Vehicle Mileage Charge	$1.00

CHRISTOPHER F. ALLEN, PG, CEG

Engineering Geologist, Project Manager

25+
Years of Experience

A certified engineering geologist with over 25 years of experience, Christopher (Chris) Allen is the managing principal of Earth Systems' Pasadena office, which services projects in the greater Los Angeles area. He works closely with owners, the design professional team, contractors, and project stakeholders to ensure delivery of high-quality services in a timely manner. He is known for his excellent project and team management skills, as well as his knowledge and understanding of both the design phase and construction phase aspects of site development. During the design phase process, he supervises field investigations and provides consultation regarding geotechnical and geologic issues that may impact the project. During project construction, he oversees geotechnical observation of grading operations, pavement construction (including rehabilitation), and materials testing. He received a Bachelor of Science degree in geology from California State University, Northridge. He has been employed with Earth Systems since 2005.

REGISTRATIONS AND CERTIFICATIONS
Certified Engineering Geologist, State of California (No. 2648)

Professional Geologist, State of California (No. 9085)

Certified Nuclear Gauge Radiation Safety Officer

EDUCATION
B.S., Geology, California State University Northridge

A.A., Pasadena City College

PROFESSIONAL AFFILIATIONS
Member, Association of Environmental and Engineering Geologists (AEG)

Member, Los Angeles Basin Geological Society (LABGS)

Member, American Association of Petroleum Geologists (AAPG)

Member, ASTM, Committee (D18) Member on Soil and Rock

Member, International Code Council (ICC)

Member, Geoprofessional Business Association (GBA)

Member, The California Geotechnical Engineering Association (CalGeo)

EMAIL
callen@earthsystems.com

AREAS OF EXPERTISE

- Geologic hazard studies
- Seismic analysis, including determination of design peak ground accelerations, design earthquake magnitudes, and seismic response spectra
- Assessment of potential for fault rupture
- Fault investigations
- Landslide evaluation and mitigation
- Liquefaction evaluation and mitigation
- Slope stability analysis
- Slope reinforcement
- Erosion studies and mitigation
- Fluvial geomorphology

PROJECT EXPERIENCE

- City of Pasadena On-Call Professional Services Contract, 2004-2020 and 2024-2028, Pasadena, CA
- City of South Pasadena On-Call Professional Services Contract, 2006-2016, Pasadena, CA
- City of Pasadena Emergency Operations Facility, Pasadena, CA
- The Rose Bowl Stadium Improvements, Pasadena, CA
- Pasadena Transit Operations and Maintenance Facility, Pasadena, CA
- Robinson Park Recreation Center, Pasadena, CA
- City of Pasadena Fire Station 39, Pasadena, CA
- Orange Grove Water Main, Pasadena, CA
- Watts Skate Park, Los Angeles, CA
- AMTRAK Train Maintenance Facility at 2468 East 16th St., Los Angeles, CA
- Forensic Investigation of Pavement, City of Sierra Madre, CA

ANTHONY P. MAZZEI, PE, GE

Principal Geotechnical Engineer

38+
Years of Experience

A registered civil and geotechnical engineer with 38 years of experience, Anthony Mazzei is a managing principal of Earth Systems Pacific. Mr. Mazzei is involved in all aspects of field exploration, data collection, geotechnical analysis, and development of geotechnical criteria. He has a proven track record of efficient scheduling, budgeting and management of technically complex projects. During the design phase process, he supervises geotechnical engineering investigations and provides consultation regarding geotechnical issues that may impact the project. During construction he oversees observation of grading operations, special inspection and materials testing. Mr. Mazzei is a Registered Professional Civil and Geotechnical Engineer in the State of California, a Registered Civil Engineer in Arizona, and a Qualified SWPPP Developer/Qualified SWPPP Practitioner. Mr. Mazzei received a Bachelor of Science degree in civil engineering from the University of Pittsburgh, and a Master of Science degree in geotechnical engineering from Arizona State University.

AREAS OF EXPERTISE

- Geotechnical engineering
- Materials engineering
- Geotechnical aspects of grading
- Stabilization of slopes and earthen embankments
- Development of geotechnical criteria for shallow and deep foundations, including caissons, driven piles, and micropiles
- Development of geotechnical solutions for adverse soil conditions, including unstable subgrades, saturated soils, caving or unstable trench conditions, expansive soils, and hydro collapse of soils
- Settlement analysis
- Analysis of slopes for local and global stability
- Pavement construction and rehabilitation, including hot mix-asphalt, full-depth reclamation, overlays, recycled materials, cold foam asphalt and cement/lime stabilization
- Use of recycled materials
- Evaluation of acceptability of construction materials
- Storm Water Pollution Prevention Plan (SWPPP) implementation and documentation

PROJECT EXPERIENCE

- City of San Buenaventura On-Call 5 Year Professional Services Contract, 2017-2022, Ventura, CA
- El Portal Restaurant Forensic Analysis, Pasadena, CA
- 2317 Olive Avenue, Altadena, CA
- Los Angeles Botanica Garden and Arboretum, Arcadia, CA
- Robinson Park Community Center, Los Angeles, CA
- Calabasas Country Club, Calabasas, CA
- St. Lawrence Martyr Pastoral Center, Redondo Beach, CA
- Volkswagen Dealership, Pasadena, CA
- Bay Crest Care Center, Torrance, CA
- Malibu Jewish Center & Synagogue, Malibu, CA

REGISTRATIONS AND CERTIFICATIONS
Registered Professional Engineer (Geotechnical) State of California, 2009 (No. 2823)

Registered Professional Engineer (Civil) State of California, 2005 (No. 67802)

Registered Professional Engineer (Civil) State of Arizona, 1990 (No. 24415)

Qualified SWPPP Developer/ Qualified SWPPP Practitioner (QSD/QSP)

CASQA Certificate No. 21300

EDUCATION
M.S., Geotechnical Engineering, Arizona State University, 1989

B.S., Civil Engineering, University of Pittsburgh, 1985

PROFESSIONAL AFFILIATIONS
Member - American Society of Civil Engineers
Member - International Society of Soil Mechanics and Foundation Engineers

EMAIL
tmazzei@earthsystems.com

RENEE S. MORALES, PE, GE

Geotechnical Engineer

12+
Years of Experience

Ms. Morales is a Senior Engineer with 12 years of experience in the geotechnical engineering field. She has performed geotechnical investigations for public works, commercial, and residential projects throughout the San Francisco Bay Area and Southern California. Ms. Morales has experience in earthwork and mass grading operations, foundation design, soil stabilization, pavement design and rehabilitation, ground improvement, surcharge and slope stability. Her foundation design experience ranges from design and observation of shallow and deep foundations, conventional and post-tension mats, augercast piles, drilled displacement columns and stone columns. Her responsibilities as a senior engineer include preparation of geotechnical proposals and cost estimates for geotechnical investigations and geotechnical testing and observations services to preparation of geotechnical reports, including seismic hazards, engineering analysis, evaluation of in-situ data, foundation and project recommendations.

REGISTRATIONS AND CERTIFICATIONS
Registered Professional Engineer (Geotechnical), State of California (No.3170)

Registered Professional Engineer (Civil), State of California (No. 82772)

EDUCATION
M.S., Civil Engineering, Concentration in Geotechnical Engineering, San Jose State University

B.S., Civil Engineering, California Polytechnic State University San Luis Obispo

PROFESSIONAL AFFILIATIONS
The California Geotechnical Engineering Association (Cal Geo)

American Society of Civil Engineers (ASCE)

EMAIL
rmorales@earthsystems.com

AREAS OF EXPERTISE

- Geotechnical analysis of soil/structure interaction
- Liquefaction evaluation and mitigation
- Development of geotechnical criteria for various foundation types, including conventional footings, mat, pile, and pier foundations
- Evaluation of project alternatives with respect to geotechnical issues
- Mitigation of unstable or wet soil conditions
- Materials testing and special inspection
- Geotechnical aspects of enhanced pavement performance utilizing geotextiles, chemical treatment, full depth reclamation, and other methods
- Applicable codes and standards, including the California Building Code (CBC), Title 24 of the California Code of Regulations, ASTM, and Caltrans

PROJECT EXPERIENCE

- Schindler House Forensic Evaluation, Malibu, CA
- Bay Area Rapid Transit Development, Millbrae, CA
- Channel Islands Pavement Reconstruction, Oxnard, CA
- Charles Meyer Desalination Plant, Santa Barbara, CA
- Tapo Canyon Road Realignment, Simi Valley, CA
- Los Angeles Department of Water and Power Grounding Project, Sylmar, CA
- Lopez Canyon Co-Generation Facility, Sylmar, CA
- Duck Farm Demonstration Gardens, La Puente, CA
- Valley View Elementary School, Santa Clarita, CA
- 1620 Carriage House Road, Pasadena,, CA
- Wildwood Trail Fault Study, Lakeview Terrace, CA

MARK RUSSELL, PE, GE

Geotechnical Engineer

30+
Years of Experience

Mark Russell is a registered civil engineer and registered geotechnical engineer with over 30 years of experience in the Los Angeles area. His role for this project will be to provide geotechnical analysis and support for design phase geotechnical engineering investigations. His expertise includes shallow and deep foundations, geotechnical aspects of deep excavations and other site grading, ground modification, static and dynamic slope stability analysis, settlement analysis, liquefaction analysis and mitigation, and pavement construction/rehabilitation including new construction, full-depth reclamation, overlays and recycled materials. He has published several technical papers on the subjects of compaction grouting for liquefaction mitigation, use of cement-hardened materials in hydraulic structures, and soil vapor extraction and bioventing. He obtained a Bachelor of Science degree in Civil Engineering from the University of California at Davis in 1983, and a Master of Science degree in Civil Engineering from California State University Long Beach in 1993.

AREAS OF EXPERTISE

- Development of geotechnical criteria for shallow and deep foundations, including caissons, driven piles, and micropiles
- Development of geotechnical criteria for roadway sections, overcrossings, interchanges, roundabouts, and retaining walls
- Analysis of slope stability
- Development of geotechnical parameters for stabilization of deep excavations and shoring
- Surcharge and embankment fills
- Development of geotechnical parameters for tie-backs, retaining walls, and other slope stabilization measures
- Seismic ground motion studies
- Evaluation of potential seismically-induced settlement and hydroconsolidation
- Geotechnical aspects of erosion control, dewatering, and drainage

PROJECT EXPERIENCE

- Grant Park, Pasadena, CA
- Eaton-Blanche Park, Pasadena, CA
- Rose Bowl Stadium Improvements, Pasadena, CA
- Villa Parke Community Center, Pasadena, CA
- Robinson Park Recreation Center Pasadena, CA
- West Hills Hospital, Los Angeles, CA
- HRL Laboratories, Malibu, CA

REGISTRATIONS AND CERTIFICATIONS

Registered Engineer (Civil), State of California (No. 41463)

Registered Engineer (Geotechnical), State of California (No. 2393)

Registered Assessor (Environmental), State of California (No. 05013)

EDUCATION

M.S., Civil Engineering, California State University, Long Beach

B.S., Civil Engineering, University of California at Davis

PROFESSIONAL AFFILIATIONS

"Compaction Grouting to Mitigate Liquefaction for a New Medical Building," in Proceedings of Geotechnical Engineering and Earthquake Design IV, Conference, Sacramento, California 2008 (co-authors Geraci and Murray).

Cement-Hardened Materials for Abrasion/Erosion in Hydraulic Structures," Concrete International, Vol. 16, No. 7, 1994 (co-authors Gutschow and Omeregie).

"Soil Vapor Extraction/ Bioventing Engineering Manual," EM1110-1-4001, Member of ASCE peer review committee.

EMAIL

mrussell@earthsystems.com

REGISTRATIONS AND CERTIFICATIONS
Registered Professional Engineer (Civil), State of California (No. 89106)

Registered Professional Engineer (Geotechnical), State of California (No. 3249)

ACI Concrete Field-Testing Technician, Grade 1

Certified Nuclear Gauge Operator

EDUCATION
M.S., Civil Engineering, Geotechnical Concentration, University of California, Los Angeles

B.S., Civil Engineering, National Chiao Tung University, Taiwan

PROFESSIONAL AFFILIATIONS
Member – American Society of Civil Engineers

Member – American Public Works Association

Member – California Geotechnical Engineering Association

EMAIL
mlu@earthsystems.com

MENG WEI LU, PE, GE

Project Engineer

9+
Years of Experience

Meng Wei Lu is a project engineer responsible for project management and technical oversight of design phase geotechnical investigations, as well as supervision of materials testing and special inspection during construction. He has worked extensively on projects requiring deep excavation, earth retention, mitigation of seismic-induced settlement, soil stabilization, deep foundations, and underpinning. In keeping with Earth Systems' philosophy of hands-on experience, Mr. Lu has spent considerable time in the field, performing functions such as drill logging, CPT supervision, soil sampling, grading observation and testing, concrete batch plant inspection, and asphalt batch plant inspection and is therefore familiar with all aspects of the site development process. He obtained a Bachelor's degree in Civil Engineering from the University of Taiwan and a Master's Degree in Civil Engineering with a concentration in geotechnical engineering from the University of California, Los Angeles. He has been employed with Earth Systems since 2015.

AREAS OF EXPERTISE

- Geotechnical analysis of soil/structure interaction
- Evaluation of liquefaction potential
- Interpretation of cone penetrometer testing data
- Settlement analysis
- Analysis of slopes for local and global stability
- Development of geotechnical criteria for bearing capacity, lateral earth pressures, pavement design, and deep excavations
- Shear key and buttress design for landslide stabilization
- Earth retention systems
- Field testing and geotechnical observation of mass grading operations
- Proficient in geotechnical software programs such as Slide2, LPile, Cliq, Settle3D, Phase2, DeepSoil, Matlab, FLAC

PROJECT EXPERIENCE

- Nordhoff Library Remodel, Ojai, CA
- Rancho Camulos Museum, Lake Piru, CA
- City of San Buenaventura On-Call 5 Year Professional Services Contract, 2017-2022, Ventura, CA
- Paramount Hospital, Paramount, CA
- San Ysidro Inn Reconstruction, Montecito, CA
- Santa Barbara Hilton Additions and Improvements, Santa Barbara, CA
- Palmdale Aerospace Academy, Palmdale, CA
- CHP Facility, Norwalk, CA
- Grande Vista Assisted Living Building Improvements, Thousand Oaks, CA
- Boys and Girls Club of Greater Conejo Valley, Thousand Oaks, CA

REGISTRATIONS AND CERTIFICATIONS
Certified 40 Hour HAZWOPER

EDUCATION
M.S., Geology, California State University, Long Beach, CA

B.S., Earth Science, University of California, Santa Cruz, CA

A.S., Pasadena City College, Pasadena, CA

EMAIL
lpineda@earthsystems.com

LINDA PINEDA

Staff Geologist

6+
Years of Experience

Staff geologist Linda Pineda assists with geotechnical and geologic investigations, and provides geotechnical testing and observation during construction. Linda is experienced in drill logging, soil and rock classification, GIS data analysis, percolation and infiltration testing, environmental characterization, and geologic mapping. She is knowledgeable regarding environmental assessment, with experience in groundwater monitoring, evaluation of well data, and soil and groundwater remediation techniques such as excavation, vapor extraction, and injection wells. Her field experience includes geotechnical observation for large-scale earthwork operations, and geotechnical testing using both nuclear gauge and sand cone methods. She performs observation of deep foundation construction consisting of cast-in-drilled-hole (CIDH) piles, driven piles, micro-piles. She obtained a Master's Degree in Geology from California State University, Long Beach, and a Bachelor's Degree in Earth Science from University of California, Santa Cruz.

AREAS OF EXPERTISE

- Logging of soil borings and geologic trenches
- Laboratory testing of collected soil and rock samples
- Geologic mapping and geologic hazards analysis
- Seismic analysis, including determination of design peak bedrock accelerations, design earthquake magnitudes, and seismic response spectra
- Slope stability analysis
- Erosion studies and mitigation
- Fault investigations
- Assessment of potential for fault rupture
- Phase 1 and Phase 2 environmental site characterizations
- Geotechnical observation and testing
- Infiltration and percolation testing

PROJECT EXPERIENCE

- 1427 Arroyo View Drive, Pasadena, CA
- Highland High School Shade Structure, Palmdale, CA
- Raney Intermediate School Phase II Sampling, Corona, CA
- Lockheed Martin B648 Assembly Bay Forensic Study, Palmdale, CA
- Newport Drive Box Culvert Repair, Goleta, CA
- Wendy's Phase 1 ESA, Highway 111, Indio, CA
- 23500 Park Sorrento Entrance Drive On-Call Geotechnical Services, Calabasas, CA
- Eastside High School Shade Structure, Palmdale, CA

APPENDIX B: REQUESTED AGREEMENT MODIFICATIONS

Requested Contract Modifications to the Altadena Library District Consultant Services Agreement

Section	Comments
14(a).	*Paragraph is revised as follows:* **INDEMNITY** To the fullest extent permitted by California law, Consultant shall indemnify, defend with counsel of the DISTRICT's choosing, and hold harmless the DISTRICT, its officers, officials, agents, and employees against all claims, damages, demands, liability, costs, losses and expenses, including without limitation court costs and reasonable attorneys' fees, ~~arising from~~ to the extent caused by Consultant's negligent acts, ~~or negligent; failure to act,~~; errors~~,~~; or omissions or willful misconduct ~~incident to~~ in the performance of this Contract except such loss or damage caused by the active negligence**,** sole negligence, or willful misconduct of the DISTRICT or it's other contractors or consultants. As to its professional services, Consultant shall have no upfront duty to defend but shall reimburse defense costs to the DISTRICT in proportion to the proven culpability of Consultant, as determined by the court on a comparative fault basis, and to the extent applicable, as may be further limited by CA Civil Code § 2782.8

EARTH SYSTEMS

2122 East Walnut Street, Suite 200 | Pasadena, CA 91107 | (626) 356-0955 | www.earthsystems.com

FEE SCHEDULE

(Effective January 1, 2024)

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

PERSONNEL	Hourly Rate
Principal Professional	$230.00
Associate Professional	$220.00
Senior Professional	$200.00
Project Professional	$180.00
Staff Professional	$144.00
Technician	$95.00
Technician, Prevailing Wage*	$140.00
Special Inspector	$100.00
Special Inspector, Prevailing Wage*	$145.00
Los Angeles Deputy Inspector	$120.00
Los Angeles Deputy Inspector, Prevailing Wage*	$140.00
Special Services Technician	$120.00
Technical Assistant	$100.00
Clerical/Administrative	$95.00

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

BASIS OF CHARGES, GENERAL

1. Field technician services for regular workdays for non- Prevailing Wage projects are subject to a 2-hour minimum charge, and billed in 2-hour increments. Special inspection services are subject to a 4-hour minimum charge and billed in 4-hour increments.
2. Work performed on Saturdays, night work, and for premium hours (before 7 a.m., after 5 p.m. or more than 8 hours in one day) for personnel are at time and one-half; Sundays and holidays are at double time. Work performed on weekends, holidays, and when work starts outside of regular business hours is subject to a 4-hour minimum charge.
3. Charges are calculated in minimum one-hour increments and accumulate on a portal-to portal basis.
4. A 2-hour cancellation charge applies if scheduled inspection or testing is cancelled after 3 p.m. the day prior to the scheduled work.
5. Projects will be invoiced a Trip Charge based on proximity to the servicing office.
6. Nuclear density gauge charge: $12.50/hour.
7. Weekly special inspection report charge: $120.00
8. Subcontracted services, materials, rental equipment, out of town travel, and expenses are charged at cost plus 20 percent. Fixed per diem rates for specific projects can be provided upon request.
9. Report copies: $25.00 each (minimum). Posting of electronic documents to project websites will be charged at clerical/administrative services rate.
10. Invoices are payable upon presentation. Invoices thirty days past due are subject to a service charge of one and one-half percent per month. Payments using a credit card will be assigned a 3% surcharge.
11. Rates are effective through June 30, 2024.

PREVAILING WAGE PROJECTS

1. Field services for regular workdays for Prevailing Wage projects are subject to a 4-hour minimum charge, and billed in 4-hour increments.
2. The prevailing wage (PW) rates presented herein are based on current rates established by the Department of Industrial Relations (DIR). If, during the project, prevailing wage rates are increased by DIR, rates are subject to adjustment. Also, please note requirements concerning overtime, shift work, travel time, holidays, and other factors can vary for different classifications of work under prevailing wage regulations.
3. State regulations requiring electronic submittal of Certified Payroll to DIR for prevailing wage projects will be assessed a fee of $70.00/week. Additional time required to address specific requests related to DIR/Labor Compliance will be charged at the clerical/administrative services rates.

FEE SCHEDULE - MATERIALS TESTING

(Effective January 1, 2024)

BASIS OF CHARGES

Rates for field work such as materials sampling, construction inspection, and field evaluation will be in accordance with the Personnel Rates listed in the basic Fee Schedule. The below listed rates apply to standard ASTM test methods. An additional hourly charge ($90.00/hr.) will be applied for cutting, capping, or other preparation of non-standard samples and, where noted, for steel samples.

SOILS

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

Atterberg Limits: Liquid Limit or Plastic Limit	$130.00
Atterberg Limits: Plasticity Index	$250.00
California Bearing Ratio, 3 points; incl. ref maximum density	$750.00
California Bearing Ratio, 9 points; incl. ref maximum density	$1,050.00
Consolidation, one dimensional	$250.00
Consolidation, timed, per point	$85.00
Corrosivity Testing	$240.00
Direct Shear, 3 points minimum	$300.00
Expansion Index Test	$200.00
Maximum Density and Optimum Moisture: 4" Mold	$260.00
Maximum Density and Optimum Moisture: 6" Mold	$310.00
Maximum Density and Optimum Moisture: California Impact	$280.00
Moisture and Unit Weight Determination, from ring samples	$40.00
Moisture Only	$30.00
Permeability Tests, constant head or falling head	Per Quote
R-Value	$400.00
R-Value, CA State Hwy/set of 3, Cement, Lime, Other additives	$450.00
Hydro Collapse Potential	$125.00
Sieve/Hydrometer Analysis, assumed specific gravity, w/200 wash	$200.00
Sieve Analysis, Aggregate Base/Subbase	$165.00
Sieve Analysis 200 wash only	$120.00
Sieve Analysis with wash	$180.00
Sieve Analysis, Oversize Material	$210.00
Specific Gravity	$185.00
Swell Test, undisturbed	$185.00
Swell Test, remolded	$235.00
Unconfined Compressive Strength, untreated	$165.00
Unconfined Compressive Strength, lime or cement treated	$525.00

THERMAL RESISTIVITY TESTS

Concrete, 1 point w/moisture content (requiring special collection procedure)	Per Quote
Field Testing using Thermal Resistivity Meter	Per Quote
Soil, per moisture point, per sample	Per Quote
Soil, 3 moisture points with dry-out curve, per sample	Per Quote

CONCRETE AGGREGATE

Abrasion, L.A. Rattler, 100 and 500 revolutions	$300.00
Absorption, Coarse Aggregate	$100.00
Absorption, Fine Aggregate	$150.00
Clay Lumps and Friable Particles in Aggregate	$150.00
Cleanness Value of Coarse Aggregate	$150.00
Crushed Particles, each size	$150.00
Durability Index, Coarse or Fine Aggregate	$200.00

FEE SCHEDULE - MATERIALS TESTING

(Effective January 1, 2024)

Flat and Elongated Particles in Aggregate	$150.00
Organic Impurities in Fine Aggregate	$100.00
Potential Reactivity of Aggregate by Chemical Method, each size	Per Quote
Sand Equivalent	$150.00
Sieve Analysis, washed	$200.00
Soundness, Sodium Sulfate, 5 cycles	$500.00
Specific Gravity, Coarse Aggregate	$150.00
Specific Gravity, Fine Aggregate	$150.00
Uncompacted Void Cntnt of Fine Aggregate Angularity, w/fine Aggregate SG	$280.00
Unit Weight of Aggregate	$150.00

CONCRETE CYLINDERS, BEAMS AND CORES

Compression Test of Cast Cylinders	$40.00
Compression Test of Cored Samples, cored at laboratory	$100.00
Compression Test of cores delivered by others	$85.00
Compression Test of Lightweight Concrete	$40.00
Density of Concrete Cylinders	$80.00
Density of Hardened Concrete	$110.00
Flexural Strength, Simple Beam with Third Point Loading	$190.00
Grading of Shotcrete Cores	$220.00
Sample Storage, monthly per sample	$30.00
Shrinkage, set of 3	$410.00
Unit Weight of Lightweight Concrete	$110.00
Enviro. Recycling Fee, per cylinder, core or beam	$2.00
Enviro Recycling Fee, per flex beam	$5.00
Enviro Recycle Fee/Form Stripping, per shotcrete panel/beam	$50.00

MASONRY

Absorption of Block, set of 3	$175.00
Compression Test, 2” x 4” Mortar Cylinders	$45.00
Compression Test, 3” x 3” x 6” Grout Samples	$45.00
Compression Test on Block, set of 3	$175.00
Compression Test on Grouted Prisms	$300.00
Compression Test on Masonry Cores	$85.00
Coring of Grouted Masonry by Subcontractor	cost + 20%
Masonry Shrinkage, set of 3	$320.00
Moisture Content of Block as received, set of 3	$135.00
Shear Test on Masonry Cores, 2 faces	$180.00
Specific Gravity and Unit Weight of Block, set of 3	$180.00
Enviro Recycling Fee, per masonry prism	$10.00
Enviro Recycling Fee, per mortar or grout sample	$2.00

FIREPROOFING

Fireproof Bond Test	Per Quote
Fireproofing Density Test	Per Quote

ASPHALT CONCRETE

Bulk Specific Gravity of Compacted Specimens and Core Samples	$80.00
Compaction of Lab Samples, CA Kneading Compactor, set of 3	$450.00
Compaction of Lab Samples, CA Kneading Compactor, set of 5	$700.00
Compaction of Lab Samples, Marshall Method set of 3 –(50 blows/side)	$360.00
Compaction of Lab Samples, Marshall Method set of 3 –(75 blows/side)	$460.00
Extraction of Oil from A.C. Mixtures	Per Quote
Extraction of Oil from Rubberized Mixtures	Per Quote
Gyratory Compactor, per set of field mixed asphalt	Per Quote
Hamburg Wheel Tracker Test, per set of field mixed asphalt	Per Quote

FEE SCHEDULE - MATERIALS TESTING

(Effective January 1, 2024)

Ignition Oven Binder Content, after initial correction value is determined	$275.00
Ignition Oven Binder Content Corr Value /mix design, average of 3	$1,400.00
Ignition Oven Gradation Correction Value, per mix design	Per Quote
Moisture Content	$60.00
Sieve Analysis of Extracted Aggregate	$285.00
Sieve Analysis of Ignition Oven Residue	$270.00
Specific Gravity, Theoretical Maximum, Rice Method	$170.00
Stability and Flow, Marshall Apparatus, set of 3	$260.00
Stabilometer, Hveem S-Value, set of 3	$350.00
Enviro Recycling Fee, per sample	$2.00
Enviro Recycling Fee for Extracted Oils	$30.00

REINFORCING AND STRUCTURAL STEEL

Bend Test of Welded Specimen, sample preparation not included	$180.00
Pipe Flattening Test, sample preparation not included	$180.00
Reinforcing Steel Coupler Tensile and Slip Tests	$330.00
Structural Steel Bend Test, sample preparation not included	$180.00
Structural Steel Machining/Sample Preparation	cost + 20%
Structural Steel Tensile Test, sample prep not included	$185.00
Tensile and Bend Tests of Reinforcing Bar, #2 through #9	$200.00
Tensile and Bend Tests of Reinforcing Bar, #10 through #18	Per Quote
Enviro Recycling Fee, per sample	$2.00

BOLT TESTS

Bolt Tests, chemical or mechanical	cost + 20%

WELDER QUALIFICATION

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

EQUIPMENT/CHARGES (Does Not Include Personnel)

110-volt Portable Electric Generator	$85.00/day
Anchor Pull Test Equipment	$25.00/hr.
Bailer (disposable) w/dedicated rope	$25.00/ea.
Concrete and Asphalt Concrete Coring Equipment	cost + 20%
Concrete Slab Moisture Transition Kit	$50.00/ea.
Conductivity Meter	$80.00/day
Cut-Off Saw	cost + 20%
Double Ring Infiltrometer (per set)	$150.00/day
Drum Dolly	$25.00/day
Drums	$75.00/ea.
Dynamometer, In-line Scale	Per Quote
Hammer Drill	Per Quote
Hand Auger/Sampler Equipment	$50.00/day
Lock n, Load VOC Sample Pres. Sys.	$20.00/ea.
Magnetic Particle Equipment	Per Quote
Manometer	$100.00/day
Mini-Troll Groundwater Level Transducer	$100.00/day
Mobile Laboratory	Per Quote

FEE SCHEDULE - MATERIALS TESTING

(Effective January 1, 2024)

Nuclear Density Equipment, per hour	$12.50/hr.
Nuclear Density Equipment, per test	$10.00
Paint Thickness Meter	Per Quote
Percolation Tank System and Trailer	Per Quote
Personal Protective Equipment Level C	Per Quote
Pile Driving Equipment (for pile load testing)	Per Quote
Pile Load Testing Equipment	Per Quote
Pulse Velocity Meter	$100.00/day
Rebound Hammer (Schmidt Hammer)	$50.00/day
Reinforcing Steel Locating Equipment (DR-Meter)	$100.00/day
Relative Humidity Meter	$100.00/day
Safety and Specialty Equipment	Per Quote
Sampling Consumables	Per Quote
Skidmore Bolting Calibration Equipment	$250.00/day
Slope Inclinometer Equipment, per hole	Per Quote
Soil Sampling Containers (metal)	$15.00/ea.
Soil Sampling Containers (glass)	$5.00/ea.
Tape Extensometer	Per Quote
Tension Equipment	$60.00/day
Torque/Tension Equipment	$70.00/day
Water Level Indicator	$45.00/day
Winsor Probe, set of 3	Per Quote
Per Diem	Per Quote
DIR Compliance/eCPR, per week	$70.00
DSA Box Posting, ea.	$100.00
DSA Lab Compliance, per week	$50.00
Vehicle Mileage Charge	$1.00

EXPERT WITNESS SERVICES

(Effective January 1, 2024)

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

HOURLY CHARGES FOR PERSONNEL

Principal Professional	$500.00
Associate Professional	$400.00
Senior Professional	$300.00
Clerical/Admin Services	$100.00

SPECIAL SERVICES

Deposition	$400.00/hr.[2]
Arbitration	$400.00/hr.
Court Appearance/Hearings	$1,600.00/half day[3]
Standby to Appear	$800.00/day[4]

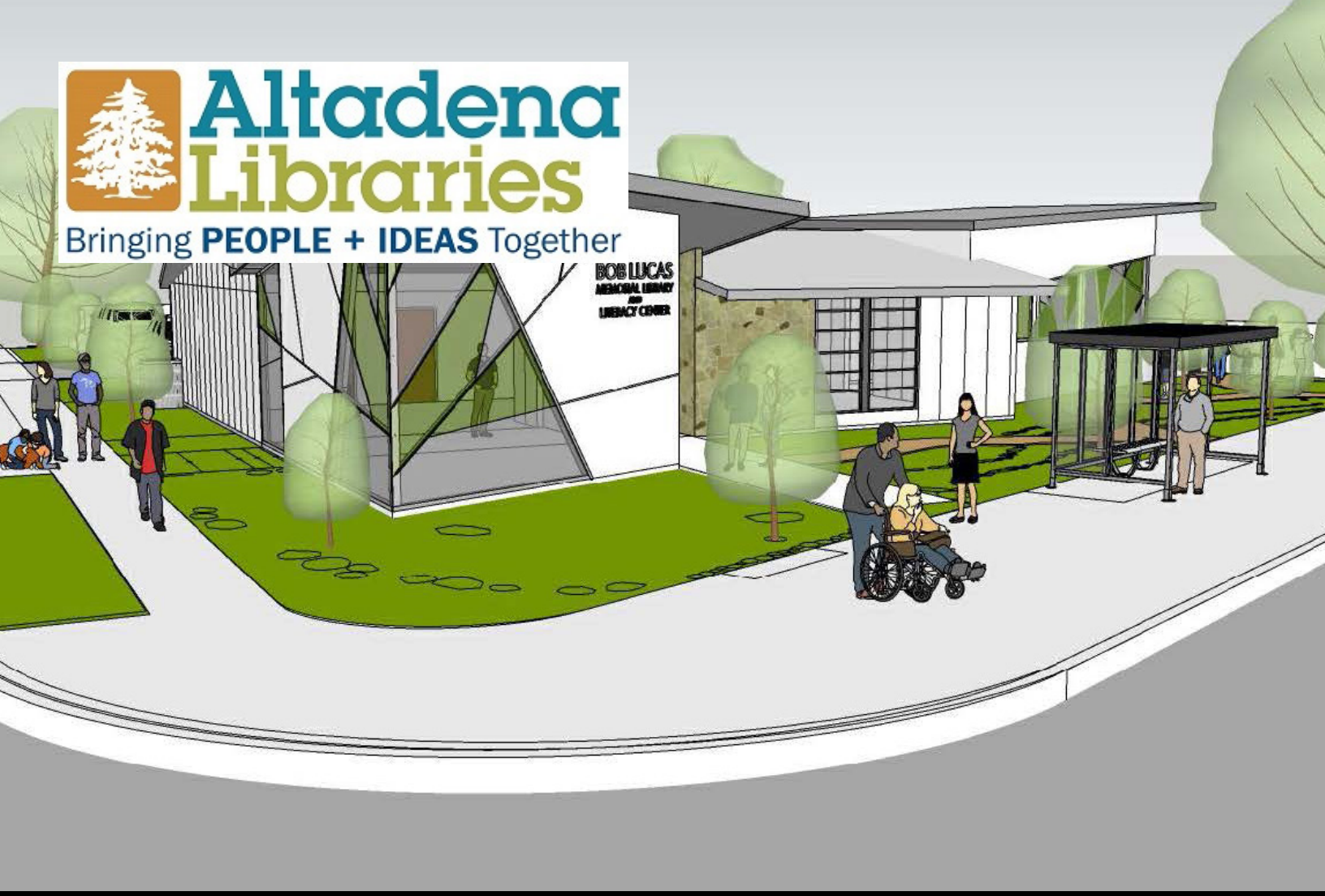
BASIS OF CHARGES

1. Hourly rates are charged during investigation, analysis, consultation, and preparation services.

2. Estimated deposition fee payable in advance by party requesting deposition. The difference between advance payment and final fee to be billed or refunded in accordance with the fee and billing information in this schedule. Fee for reviewing deposition transcript will be billed at hourly rates to the party requesting the review.

3. Minimum half day charge will apply to court appearances and hearings. Time extending through the noon hour will be subject to the full day charge of $3,200.00.

4. Days, or portions thereof, reserved for appearances at hearings, court, or arbitrations, during which we are not required to be away from our offices will be subject to a standby charge of $800.00. Standby at other locations will be charged at the general hourly rates.



RESPONSE TO REQUEST FOR PROPOSALS (RFP) –

Altadena Library District (ALD)

CONSTRUCTION INSPECTION AND SOILS
ENGINEERING SERVICES
ON-CALL SERVICES

Submitted To:

Jennifer Pearson, Capital Projects Manager
Jennifer.Pearson@huckabee-inc.com

FENAGH
ENGINEERING AND TESTING
9070 Center Avenue, Rancho Cucamonga, California 91730 | (909) 587-6374
www.fenaghengineering.com

FENAGH
ENGINEERING AND TESTING

COVER LETTER
ALTADENA LIBRARY DISTRICT

Altadena Library District (ALD) February 23, 2024
Attention: Ms. Jennifer Pearson, Capital Projects Manager - Jennifer.Pearson@huckabee-inc.com

Subject: **Altadena Library District - On-Call Services**
Construction Inspection and Soils Engineering Services

Dear Ms. Pearson,

Fenagh Engineering and Testing is pleased to submit the attached response to provide Construction Inspection and Soils Engineering Services on an on-call basis to Altadena Library District (ALD). As an industry leader, ALD can depend on our focused dedication to ensuring the success of each and every project that we are assigned to. It is our intention to seamlessly integrate into your team with shared goals – we are fully committed to staying on schedule, and ensuring quality on your projects from start to finish. It is our mission to provide a proactive and budget-conscious management style that will ensure cost-effectiveness on your projects.

PRIMARY OFFICE/LABORATORY, POINT OF CONTACT, AND PROJECT TEAM

- ALD projects would be primarily serviced by Fenagh's Rancho Cucamonga facility **(LA Certified Lab)**.
- Fenagh's **primary point of contact** for ALD is Jeff Johnson.
- Fenagh's Project Team is spearheaded by Jeff Johnson as Senior Project Executive and Regional Vice President, Kevin Ramirez as Senior Project Manager, Ung Sing (Bruce) Tie, PE as Principal Engineer, and Emil Rudolph, PE, GE as Geotechnical Engineer. ***Key personnel will remain intact through the duration of the project(s).***

ACKNOWLEDGMENTS

Fenagh, Inc. dba Fenagh Engineering and Testing has reviewed the RFP in its entirety and can confirm that we are fully capable of providing both the construction inspection and soils engineering services. We can also comply with the terms and conditions in the PSA provided without exceptions.

Furthermore, Jeff Johnson, will be the designated contact and can bind Fenagh Engineering and Testing to this contract. We have also received/reviewed Addendum No.1 dated February 5, 2024 and Addendum No. 2 dated February 16, 2024.

We appreciate your time and consideration, and we look forward to the opportunity of working with Altadena Library District on upcoming projects. Our team will remain available to answer any questions or concerns that may arise during the proposal review process.

Respectfully Submitted,
Fenagh Engineering and Testing

Jeff Johnson
Jeff Johnson
Senior Project Executive | Regional Vice President
(909) 587-6374 | jjohnson@fenaghengineering.com

Kevin Ramirez
Kevin Ramirez
Senior Project Manager
(909) 727-1431 | KRamirez@fenaghengineering.com

TABLE OF CONTENTS

SECTION 1
EXPERIENCE

BUSINESS INFORMATION AND DESCRIPTION OF THE FIRM

Company Name: Fenagh, Inc. dba Fenagh Engineering and Testing

Corporate Address: 2110 Rheem Drive, Pleasanton, CA 94588 | **Phone:** (925) 403-4747

Southern California Addresses:

1. 9070 Center Avenue, Rancho Cucamonga, CA 91730 | **Number of Personnel:** 175+
2. 9474 Chesapeake Dr., Suite 906, San Diego, CA 92123 | **Number of Personnel:** 50+

Phone Number: (909) 587-6374 | **Website:** www.fenaghengineering.com

Primary Contact: Jeff Johnson | **Phone:** (909) 587-6374 | **E-mail:** Jjohnson@fenaghengineering.com

Federal Tax ID: 46-3430564

DSA Laboratory LEA Numbers(s) and Addresses:

1. DSA LEA No. 320 | **Address:** 9070 Center Avenue, Rancho Cucamonga, CA 91730
2. DSA LEA No. 332 | **Address:** 9474 Chesapeake Dr., Suite 906, San Diego, CA 92123

Form of Business Organization: Corporation

Years in Business: 9 Years | **DIR Registration No.** 1000048764 **CADIR Proof of Registration**

DESCRIPTION AND HISTORY OF FIRM

Fenagh Engineering and Testing was established in 2014 as an extension of Construction Testing Services (CTS), its Bay Area sister company, to provide professional services in geotechnical investigation, materials testing, special inspection, and in-house specialty testing. Fenagh maintains a comprehensive AASHTO-accredited and DSA-accepted laboratory in Rancho Cucamonga, California, which services as our Southern California headquarters.

We boast a rich history of providing similar services on K-14 educational institutions, healthcare facilities, public infrastructure, and private construction projects throughout Southern California. Our teams have the expertise, knowledge, and experience required to ensure the successful completion of each project we are assigned to. Moreover, Fenagh has additional resources in San Diego, Northern California, and Phoenix that are available for any specialty testing that may be required.

All Fenagh laboratories are fully equipped to perform all required testing on concrete, masonry, aggregate, bituminous pavement, structural and reinforcing steel, fireproofing, soils, and more. With a team of 200+ professionals, including professional engineers, project managers, special inspectors, field technicians, laboratory staff, and administrative personnel, we have countless years of experience across multiple markets and jurisdictions.

Fenagh is renowned for its customer-focused procedures, proactive nature, and budget-conscious approach, which have paved the way for our efficient and hands-on project management style – ***The Fenagh Difference***.

District
Rialto Unified
School District

Project Start Date (FET)
August 2023

Expected Completion
May 2025

DSA Status
ID 04-121526 – Open

DSA Final Certification
Not Applicable

Estimated Project Cost
$24M

Square Footage
55,400 SF

District Contact
Ms. Angie Lopez
Director
(909) 421-7555
ALopez@rialtousd.org

Key Personnel
Martin B. Lowenthal
Ung Sing (Bruce) Tie, PE
Jeff Johnson
Kevin Ramirez
Christina Felix
Steve Lindquist

NEW CLASSROOM BUILDINGS
Rialto, California

The Eisenhower High School New Classroom Buildings project encompasses the construction of two new state-of-the-art classroom buildings: a spacious two-story structure spanning 39,105 square feet, complemented by an additional two-story building covering 16,320 square feet. This initiative aims to provide students with upgraded 21st-century learning environments. Construction includes various enhancements to the school grounds. This includes the installation of new concrete walkways, patios, and outdoor collaboration spaces. To promote accessibility, ADA-compliant parking stalls and electrical charging stations will be strategically placed. The project will feature on-site storm drains to ensure effective drainage management.

SUMMARY OF SERVICES PROVIDED

- Geotechnical Engineer of Record
- Soils Observation and Field Compaction Testing
- Reinforced Concrete Special Inspection and Sampling
- Batch Plant Inspection
- Sample and Tag Reinforcing Steel
- Masonry Inspection
- On-Site and Off-Site Structural Steel Inspection and NDT/UT
- Glu Lam Inspection
- Laboratory Testing- All Associated Construction Materials Testing

District
Irvine Unified School District

Project Start Date (FET)
March 2023

Expected Completion
December 2025

DSA Status
ID 04-120050 – Open

DSA Final Certification
Not Applicable

Estimated Project Cost
$26M

Square Footage
25,000 SF

District Contact
Mr. Ed Hernandez
Construction Supervisor
(949) 279-4656
EdHernandez@iusd.org

Key Personnel
Martin B. Lowenthal
Ung Sing (Bruce) Tie, PE
Jeff Johnson
Kevin Ramirez
Christina Felix
Steve Lindquist

IRVINE HS NEW PAC
Irvine, California

Irvine High School's new performing arts center will become a community focal point at the front of the existing campus. The new theatre will feature nearly 600 seats, and will create a visionary and transformational facility that supports educational and student success. The project also includes newly envisioned outdoor spaces for performing.

Construction includes new building construction, interior improvements, building utilities, and related site improvements; with patch and repair as required, and other features to the extent indicated on project plans and specifications.

SUMMARY OF SERVICES PROVIDED

- Reinforced Concrete Special Inspection and Sampling
- Footing Inspection
- Batch Plant Inspection
- Sample and Tag Reinforcing Steel
- On-Site and Off-Site Structural Steel Inspection and NDT/UT
- Laboratory Testing- All Associated Construction Materials Testing

District
El Monte Union High School District

Project Start Date (FET)
February 2023

Expected Completion
July 2024

DSA Status
ID 03-122081 – Open

DSA Final Certification
Not Applicable

Estimated Project Cost
$24M

District Contact
Ms. Norma Macias
Director FMOT
(626) 444-9005
Norma.Macias@emuhsd.org

Key Personnel
Martin B. Lowenthal
Ung Sing (Bruce) Tie, PE
Christina Felix
Steve Lindquist

SEMHS MODERNIZATION
El Monte, California

South El Monte High School is undergoing a major modernization project to renovate 11 buildings, focusing on necessary repairs and upgrades. Building A and Building B's will be modernized, while classroom spaces in Buildings C, D, and E will be updated to accommodate evolving teaching styles. Buildings G, H, and J will receive modular building upgrades and new accessible restrooms. Building K will undergo a complete renovation, Building L's HVAC system and the cafeteria will be updated, and Building M's HVAC system and the gymnasium's second floor will be renovated.

SUMMARY OF SERVICES PROVIDED

- Geotechnical Engineer Consultation and Geotechnical Analysis
- Soils Observation and Field Compaction Testing
- Asphalt Placement Observation and Field Compaction Testing
- Reinforced Concrete Inspection
- Masonry Inspection
- On-Site and Off-Site Structural Steel Inspection
- Wood Framing Inspection
- Laboratory Testing- All Associated Construction Materials Testing

District
Central Elementary School District

Project Start Date (FET)
June 2023

Expected Completion
2024

DSA Status
ID 04-121578 – Open
ID 04-121579 – Open

DSA Final Certification
Not Applicable

Estimated Project Cost
$8M

Square Footage
85,000 SF

District Contact
Ms. Lori Isom
Assistant Superintendent
(909) 989-8541
LIsom@csd.k12.ca.us

Key Personnel
Martin B. Lowenthal
Ung Sing (Bruce) Tie, PE
Kevin Ramirez
Christina Felix
Steve Lindquist

CSD CLASSROOM ADDITIONS
Rancho Cucamonga, California

Central Elementary School District is constructing a single-story 2,000 SF classroom building on the Bear Gulch Elementary School Campus. Construction includes underground utilities, concrete flatwork, asphalt paving, hardscape features, and a landscaping wall. In addition, the District is also constructing a two-story 6,500 SF classroom building on the Dona Merced Elementary School Campus. Construction includes underground utilities, concrete flatwork, asphalt paving, and various hardscape features.

SUMMARY OF SERVICES PROVIDED

- Geotechnical Engineer Consultation
- Geotechnical Analysis, Report Preparation RFI Review
- Soils Observation and Field Compaction Testing
- Mass Grading Observation
- Reinforced Concrete Special Inspection and Sampling
- Footing Inspection
- Batch Plant Inspection
- Sample and Tag Reinforcing Steel
- On-Site and Off-Site Structural Steel Inspection and NDT/UT
- Laboratory Testing- All Associated Construction Materials Testing

District
Alhambra Unified
School District

Project Start Date (FET)
January 2023

Expected Completion
2024

DSA Status
ID 03-121323 – Open

DSA Final Certification
Not Applicable

Estimated Project Cost
$4.25M

District Contact
Mr. Mike Vollebregt
Program Manager
(909) 816-6275
Mike@tkrllcconsulting.com

Key Personnel
Martin B. Lowenthal
Ung Sing (Bruce) Tie, PE
Christina Felix
Steve Lindquist

ALHAMBRA HIGH SCHOOL
Alhambra, California

The Alhambra High School project includes a voluntary seismic upgrade and modernization of a fire damaged two story classroom building (Building A), and minor modernization work an administration/classroom/library building (Building C) and a physical education/locker room building (Building L).

The modernization scope of the project includes interior flooring and ceilings, signage, roofing repairs and replacement, seismic strengthening, electrical, lighting, mechanical replacement and upgrades, plumbing replacement, the addition of fire sprinklers, and the extension of the existing fire line.

SUMMARY OF SERVICES PROVIDED

- Soils Observation and Compaction Testing
- Reinforced Concrete Special Inspection and Sampling
- Post-Installed Anchors and Dowels
- Tag and Sample Reinforcing Steel
- Structural Steel Inspection
- Fiber Wrap Inspection
- On-Site and Off-Site Structural Steel Inspection and NDT/UT
- Laboratory Testing- All Associated Construction Materials Testing

ADDITIONAL PROJECT EXPERIENCE - PUBLIC WORKS

Project Name	Scope Status
City of Costa Mesa	
Fairview Park Slope Restoration	Ongoing
City of Victorville	
SCLA Soils Assessment	Pending Start
Septic to Sewer Conversion – Willow Street	Pending Start
Village and Tawney Ridge Traffic Signal	Completed
Guardrail Project	Completed
Old Town Sidewalk Connectivity Project	Completed
Pipeline Replacement Project Area 1 and 2	Completed
Pipeline Replacement Project Area 31	Completed
Industrial Boulevard and Silica Road Improvement	Completed
2021 Liberty Village Pavement Rehabilitation	Completed
City of Fontana	
Geotechnical Services for Arrow Boulevard at Tokay Avenue Traffic Signal Project	Pending Start
South Highland Avenue at Mango Avenue Traffic Signal Project	Pending Start
Geotechnical Services for Arrow Boulevard at Cypress Avenue Traffic Signal Project	Pending Start
Blanchard Avenue Sidewalk Gap	Completed
Geotechnical Services for Kathy Binks SRTS Project	Completed
Cherry Avenue at South Highland Interim Traffic Signal Project	Completed
Citrus and Ceres Avenue Traffic Signal	Completed
North Cherry and Live Oak Traffic Signal Project	Ongoing
Sierra Avenue Widening Project	Ongoing
Etiwanda at Slover Intersection Improvements	Completed
Fire Station #81	Ongoing
Foothill Boulevard and Alder Avenue Rehabilitation Project	Completed
City of Palm Springs	
Plaza Theatre Investigation	Ongoing
City of Palo Alto	
Dewatering Hydrogeological Study at 2530 Webster Court	Ongoing

ADDITIONAL PROJECT EXPERIENCE - PUBLIC WORKS

Project Name	Scope Status
City of Santa Monica	
3200 Airport Avenue Renovation Project	Completed
2800 Airport Avenue	Ongoing
City of Anaheim	
State College and La Palma Street Widening	Completed
Maxwell Dog Park	Completed
UD# 68 Eucalyptus – Underground Conversion	Completed
UD# 50 Euclid – Underground Conversion	Completed
W.A. Rasic	
23KC24 Marathon Petroleum Tanks	Ongoing
Fort Irwin UESC Convert Propane System to Natural Gas	Ongoing
San Gorgonio Flowline No. 1	Completed
LADWP City Trunk Line South – Unit 3	Completed
San Gabriel Reservoir Post-Fire Restoration Project	Completed
Asplundh	
DBMA #4 (Anaheim, CA)	Ongoing
211C125 Rove Santa Ana	Ongoing
UUD 2021-02 (Laguna Beach, CA)	Completed
DBMA #4 Coronado Street (Anaheim, CA)	Completed
DMBA #4 Glenoaks Avenue (Anaheim, CA)	Completed
R20C UG Sunflower Avenue and Flower Street (Santa Ana, CA)	Completed
DBMA #3 (Anaheim, CA)	Completed
COR-RUP 7965 (Riverside, CA)	Completed
La Palma Substation	Completed
UUAD #4 (Manhattan Beach, CA)	Completed
SCE Charging Stations – Temecula, CSULB, OmniTrans San Bernardino, LA Freightliner	Completed
UD# 65	Completed

FIRM AND PROJECT TEAM REFERENCES

The references listed below serve as valuable points of contact to verify Fenagh's exemplary performance and the competence of our staff. They can confidently attest to the exceptional quality of our firm and the expertise of our nominated Project Team/Key Personnel.

Irvine Unified School District
Mr. Ed Hernandez
Construction Supervisor
(949) 279-4656
EdHernandez@iusd.org

Central Elementary School District
Ms. Lori Isom
Assistant Superintendent
(909) 989-8541
LIsom@csd.k12.ca.us

Jurupa Unified School District
Ms. Robin Griffin, Director
Planning and Development
(951) 360-4156
Robin_Griffin@jusd.k12.ca.us

Alhambra Unified School District
Mr. Mike Vollebregt
Program Manager
(909) 816-6275
Mike@tkrllcconsulting.com

El Monte Union High School District
Ms. Norma Macias
Director FMOT
(626) 444-9005
Norma.Macias@emuhsd.org

Barstow Unified School District
Mr. James Hochstedler
Director FMO
(760) 559-5495
James_Hochstedlder@busdk12.com

Santa Barbara Unified School District
Mr. Richard Whirty
Project Manager
(805) 963-4338
RWhirty@sbunified.org

Compton Unified School District
Mr. Nathaniel Holt
Chief Facilities Officer, Bond Program Manager
(310) 639-4321, Ext. 55350
NHolt@compton.k12.ca.us

Ledesma & Meyer Construction Company, Inc.
Mr. Tim Ledesma
Director of Project Administration
(909) 476-0590
TimL@lmcci.com

Vital Inspection Services, Inc.
Mr. Philip Barragan
President
(714) 809-7750
Philip@vinspection.net

PROJECT ROLE

Fenagh's local office employs two full-time dispatchers, each with a wealth of experience exceeding 25 years. Our project team is equally robust, and we can provide you with continuous support, every day of the year. We recognize the fluidity of job-site demands and the needs of construction teams. We are currently providing professional services across multiple sectors, including K-14 school districts, higher education institutions, healthcare providers, public works, and privately owned projects. Our services extend throughout Southern California and other major metropolitan areas throughout the United States, and at any given time, we have upwards of 200 active projects nationwide. Our team is highly experienced in providing support for both continuous and periodic field assignments, serving multiple clients simultaneously, and maintaining necessary manpower on each job-site within 24 hours upon request. We are committed to delivering exceptional service – and our comprehensive project team, coupled with our round-the-clock availability, ensures that each client received the highest level of support.

PHILOSOPHY

Fenagh's core belief is that one of the most important aspects of providing on-call professional services in support of District projects is to operate as a direct extension of our ***your*** Project Team. We are a service organization first. We pride ourselves in being the eyes and ears of our clients on each job-site. Our services are critical to end-user safety AND building performance. We honor our obligations to clients and the public to ensure building safety on every project – without exception.

SIMILAR EXPERIENCE

Fenagh has established contractual arrangements with several districts throughout Southern California. Furthermore, we have forged strong connections with our client's design and construction partners, leveraging our expertise to support their efforts. Our reputation as a trusted provider has enabled us to build long-standing relationships based on trust, reliability, and a commitment to excellence.

EXPERIENCED AND CERTIFIED PERSONNEL

American Welding Society (AWS)

International Code Council (ICC)

American Concrete Institute (ACI)

Division of State Architect (DSA)

California Department of Transportation (Caltrans)

Department of Health Care Access and Information (HCAI) Preapproved

ACCREDITED LABORATORIES

AASHTO Materials Reference Laboratory (AMRL) | Cement and Concrete Reference Laboratory (CCRL)

Department of State Architect (DSA LEA# 320 and 332)

Department of Health Care Access and Information (HCAI) Preapproved

SPECIALTY SERVICES

Ground Penetrating Radar (GPR)

Floor Flatness/Levelness Testing

Gamma-Gamma Logging

Vibration Monitoring

Building Envelope Services

Water Penetration Testing

Fiber Reinforced Plastic Testing

Percolation Testing

IN-HOUSE CAPABILITIES

Fenagh's extensive in-house capabilities can fulfill all of the requirements set forth by ALD. With a proven track record of supporting a wide array of educational establishments, from K-12 schools to higher education institutions, Fenagh brings a wealth of experience to every project we are assigned to. Our scope of services is meticulously tailored to address the unique needs and complexities of each project. From initial contact to on-site mobilization and project close-out, we are committed to delivering excellence during every step of the project lifecycle.

Fenagh operates a state-of-the-art, 10,000 square foot laboratory in Rancho Cucamonga, California. To cater to any specialized testing needs, we also offer extensive resources through our facilities in Northern California, Las Vegas, and Phoenix. Our laboratories are equipped to conduct a full spectrum of materials testing – ensuring top-tier quality and compliance. ***Material Testing and Special Inspections will be performed in accordance with Title 24, California Code of Regulations and LA County Requirements.***

GEOTECHNICAL SERVICES

- Geotechnical Engineering
- Engineering Geology
- Earthquake Fault Evaluations
- Field Exploration
- Seismic Hazard Evaluation
- Soil Improvement
- Pavement Design
- Emergency/Disaster Response
- Forensic Geotechnical Assessments
- Grading Observation and Testing
- Soils/Asphalt Compaction Testing
- Settlement Monitoring

INSPECTION SERVICES

- Soils/Asphalt Compaction Testing
- Reinforced Concrete
- Batch Plant
- Shotcrete
- Masonry
- Structural Steel Field Welding
- Structural Steel Shop Fabrication
- Mechanical/Electrical/Plumbing
- High-Strength Bolting
- Non-Destructive Testing
- Proof Load Testing
- Anchor/Dowel Installation

SOIL TESTING

- Field In-Place Density Tests
- Proof Rolling Observation
- Review Soil Over-Excavations
- Maximum Dry Density
- Optimum Moisture Content
- Expansion Index Tests
- Direct Shear Tests
- Sieve Analysis
- Corrosion Testing
- Plasticity Indices

MATERIAL TESTING

- Aggregates/Soils
- Asphaltic Concrete
- Bituminous Materials
- Fireproofing
- Shotcrete
- Concrete
- Roofing
- Reinforcing Steel
- Prestressed Steel Tendons
- Concrete Masonry Units
- Welder and Procedure Qualification

CLAIM AND LITIGATION HISTORY

Fenagh, Inc. **has not** been subject to termination for default, litigation settled, or judgments entered within the last five (5) years. Also, Fenagh, Inc. **has not** been subject to any convictions for filing false claims within the past five (5) years. Fenagh can attest to the following:

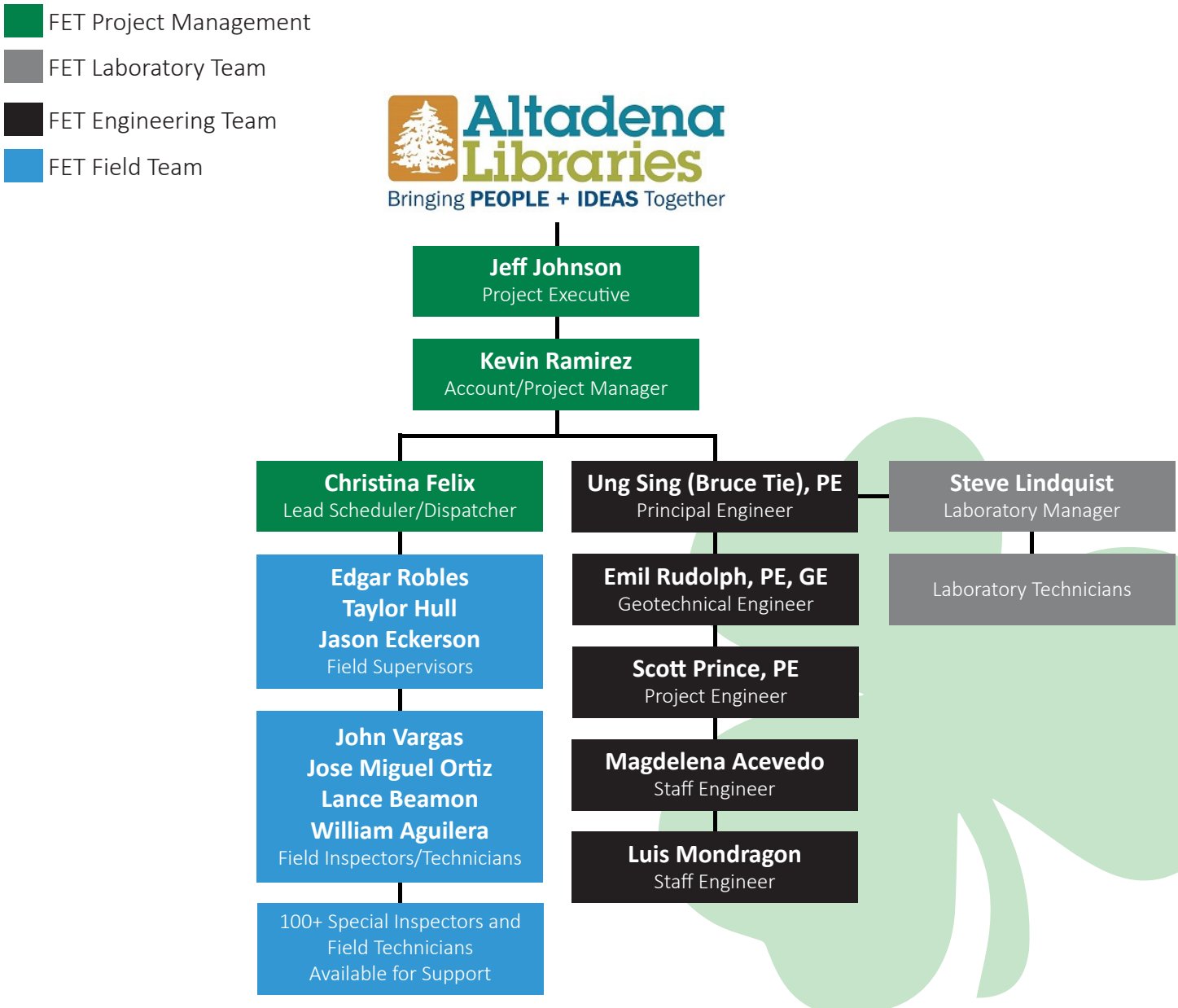
- Fenagh,Inc. **has never** been convicted of a federal or state crime of fraud, theft or other act of dishonesty.
- Fenagh,Inc. **has never** had any insurance carrier in the last five (5) years, for any form of insurance, refused to renew an insurance policy for a licensed responsible-in-charge individual on the response team or the firm based on non-payment or losses.
- Fenagh,Inc. **has never** failed to enter into a contract or professional services contract once selected.
- Fenagh,Inc. **has never** had to withdrawal of a response/proposal as a result of an error.
- Fenagh,Inc. **has never** had termination or failure to complete a contract.
- Fenagh,Inc. **has never** been convicted for violating a state or federal antitrust law by bid, proposal or RFQ response rigging, collusion, or restrictive competition between bidders or Proposers, or conviction of violating any other federal or state law related to bidding or professional services performance.
- Fenagh,Inc. **does not** have knowing concealment of any deficiency in the performance of a prior contract.
- Fenagh,Inc. **has never** conducted falsification of information or submission of deceptive or fraudulent statements in connection with a contract.
- Fenagh,Inc. **does not** posses willful disregard for applicable rules, laws or regulations.

SECTION 2
PERSONNEL

COMPANY STRUCTURE AND ORGANIZATIONAL CHART

The provided organizational chart clearly illustrates the structured relationship between Altadena Library District and Fenagh Engineering and Testing. Our meticulously selected team comprises a diverse group of professionals, each bringing their unique expertise and skills to the table. This includes our highly qualified professional staff, diligent administrative team, expert laboratory staff, specialized inspectors, and skilled field technicians, all of whom are integral to our operations and success.

Key personnel nominated for this contract are committed to being fully available and dedicated for the entirety of the contract's duration. Fenagh Engineering and Testing understands the importance of continuity and consistency in fulfilling our obligations. We guarantee that no individual designated as key personnel for this contract will be removed or replaced without the prior notification and written consent from the District. This ensures stability and reliability in the services we provide, maintaining the high standards expected by the District.



JEFF JOHNSON

REGIONAL VICE PRESIDENT | SENIOR PROJECT EXECUTIVE

Years of Experience: 25+ Years

Affiliations:

- American Concrete Institute
- American Society for NDT
- Construction Specification Institute
- American Society of Foundation Engineers
- American Nuclear Society
- American Society for Quality

Professional Summary

Mr. Johnson has over 25 years of experience in the construction industry and he is currently responsible for managing geotechnical engineering, construction materials testing and inspection services, including the direct oversight of marquee construction projects and technical support staff. Serving clients on a diverse mix of projects including retail, entertainment, private mid- and high-rise, power and energy, educational facilities, healthcare, commercial and industrial projects, and public works related assignments. He has developed an advanced understanding of the unique project management needs of different project types and he is responsible for the project management, budget tracking, staffing, documentation, deliverables, and closeout services.

Project Experience:

- Alloy Santa Fe – Los Angeles, CA
- Zia Apartments – Anaheim, CA
- Avalon Huntington Beach Lofts – Huntington Beach, CA
- Waterfront Hilton – Huntington Beach, CA
- Pacific City Residences – Huntington Beach, CA
- 1500 Granville – Los Angeles, CA
- Wilshire at Crescent Heights – Los Angeles, CA
- Irvine Unified School District, Irvine High School Performing Arts Center – Irvine, CA
- El Monte Unified High School District, SEMHS Modernization Project – El Monte, CA
- Alhambra Unified School District – Alhambra, CA
  PACIT Projects
  San Gabriel HS Fencing
  A, C, L Alterations and Seismic Upgrades
  Brightwood Elementary School Modernization
  Park ECC Playground
  Alhambra HS Volleyball Court Renovation
- California State University, Fullerton (CSUF) Baseball and Softball Facility Upgrades – Fullerton, CA
- El Camino College, Pool and Classroom Complex – Alondra Park, CA
- Cypress High School Pool Rehabilitation – Cypress, CA
- Pomona College Center for Athletics, Recreation, and Wellness
- HOAG Ancillary Emergency Building – Newport Beach, CA
- UCI Campus Medical Center – Irvine, CA

JEFF JOHNSON

REGIONAL VICE PRESIDENT | SENIOR PROJECT EXECUTIVE

Dates of Employment: September 2023 – Present

Employment Classification: Employee

FET Office of Employment: 9070 Center Avenue, Rancho Cucamonga, CA 91730

Licenses: *Not Applicable*

KEVIN RAMIREZ — SENIOR PROJECT MANAGER

Years of Experience: 8+ Years

Education: Bachelor of Science in Marketing, California State Polytechnic University, Pomona – Pomona, CA
Construction Management Program, California State Polytechnic University, Pomona – Pomona, CA

Affiliations:

- Construction Management Association of America (CMAA)
- Urban Land Institute (ULI)
- Business Development Association (BDA) IE Division

Professional Summary

Kevin Ramirez is a highly experienced professional with over 8 years of experience in the construction materials testing and inspection industry. He has worked extensively with owners, developers, school districts, and municipalities to ensure that projects are delivered on time, within budget, and in compliance with all regulations. Kevin is a proven leader who excels in managing teams of professionals and ensuring that all stakeholders are kept informed throughout the project lifecycle.

As a Senior Project Manager, Kevin is responsible for overseeing all aspects of project management, including planning, budgeting, scheduling, and quality control. He is a hands-on manager who is involved in all aspects of the project from start to finish. Kevin is also responsible for business development in the Southern California region. He works closely with clients to understand their needs and ensure that the services provided by his team meet or exceed their expectations.

Select Project Experience | K-12 Education

- Rialto Unified School District, Eisenhower High School New Classroom Building – Rialto, CA
- El Monte Unified High School District, SEMHS Modernization Project – El Monte, CA
- El Monte Unified High School District, SEMHS Parent Development Project – El Monte, CA
- Irvine Unified School District, Santiago Hills Elementary School Expansion – Irvine, CA
- Irvine Unified School District, Greentree Elementary School Expansion – Irvine, CA
- Irvine Unified School District, In-Plant Inspection (Various Sites) – Irvine, CA
- Irvine Unified School District, Measure E Series 3 Expansion at Culverdale Elementary School – Irvine, CA
- Irvine Unified School District, Irvine High School Performing Arts Center – Irvine, CA
- Irvine Unified School District, Loma Ridge ES Shade Structures – Irvine, CA
- Irvine Unified School District, District Office Expansion – Irvine, CA
- Compton Unified School District, Dominguez/Centennial HS Lights – Compton, CA
- Central School District, Various Sites; Admin Office: Front Lobby Security Upgrades – Rancho Cucamonga, CA
- Central School District, Dona Merced Geotechnical Investigation – Rancho Cucamonga, CA
- Central School District, Bear Gulch Geotechnical Investigation – Rancho Cucamonga, CA
- Jurupa Unified School District, Patriot High School Stadium Improvements – Jurupa Valley, CA
- Jurupa Unified School District, Pedley ES Portable Additions – Jurupa Valley, CA
- Alhambra Unified School District, Park ECC Playground – Alhambra, CA
- Alhambra Unified School District, Alhambra HS Volleyball Court Renovation – Alhambra, CA
- Barstow Unified School District, Barstow Junior High School Modernization – Barstow, CA
- Santa Barbara Unified School District, Adams New Classroom and Improvement Project – Santa Barbara, CA
- Santa Barbara Unified School District, Peabody Charter School ADA Ramp – Santa Barbara, CA

KEVIN RAMIREZ — SENIOR PROJECT MANAGER

Dates of Employment: September 2020 – Present

Employment Classification: Employee

FET Office of Employment: 9070 Center Avenue, Rancho Cucamonga, CA 91730

Licenses: *Not Applicable*

UNG SING (BRUCE) TIE, PE

PRINCIPAL ENGINEER

Years of Experience: 20+ Years

Education: Bachelor of Science in Petroleum Engineering, University of Oklahoma

Licenses & Certifications:

- Professional Civil Engineer, California No. 72217
- American Welding Society Certified Welding Inspector (CWI) – Certification No. 20102311
- ICC Reinforced Concrete Special Inspector
- ICC Prestressed Concrete Special Inspector
- ICC Steel and Bolting Special Inspector
- ICC Structural Welding Special Inspector
- Nuclear Gauge Certified
- Dipstick Certification, FF/FL Values
- Radiation Safety Officer

Professional Summary

With over 20 years of experience in engineering, construction, and materials testing, Bruce brings a wealth of expertise to the table. Throughout his career, he has gained a deep understanding of unusual field conditions, enabling him to troubleshoot and value engineer his client's projects effectively. Bruce is highly skilled in underground construction techniques, concrete, and soil properties, making him a go-to expert for complex projects.

As a Senior Project Manager and Principal Engineer, Bruce is responsible for ensuring that field operations and laboratory testing are completed in a timely and professional manner. He is a highly organized and detail-oriented professional who excels in managing teams of professionals and ensuring that all projects are delivered on time, within budget, and to the highest quality standards.

Select Project Experience | K-12 Education

- Rialto Unified School District, Eisenhower High School New Classroom Building – Rialto, CA
- El Monte Unified High School District, SEMHS Modernization Project – El Monte, CA
- El Monte Unified High School District, SEMHS Parent Development Project – El Monte, CA
- Irvine Unified School District, Santiago Hills Elementary School Expansion – Irvine, CA
- Irvine Unified School District, Greentree Elementary School Expansion – Irvine, CA
- Irvine Unified School District, In-Plant Inspection (Various Sites) – Irvine, CA
- Irvine Unified School District, Measure E Series 3 Expansion at Culverdale Elementary School – Irvine, CA
- Irvine Unified School District, Irvine High School Performing Arts Center – Irvine, CA
- Irvine Unified School District, Loma Ridge ES Shade Structures – Irvine, CA
- Irvine Unified School District, District Office Expansion – Irvine, CA
- Central School District, Various Sites; Admin Office: Front Lobby Security Upgrades – Rancho Cucamonga, CA
- Central School District, Dona Merced Geotechnical Investigation – Rancho Cucamonga, CA
- Central School District, Bear Gulch Geotechnical Investigation – Rancho Cucamonga, CA
- Jurupa Unified School District, Patriot High School Stadium Improvements – Jurupa Valley, CA
- Jurupa Unified School District, Pedley ES Portable Additions – Jurupa Valley, CA
- Alhambra Unified School District, PACIT Project – Alhambra, CA

UNG SING (BRUCE) TIE, PE — PRINCIPAL ENGINEER

Dates of Employment: March 2018 – Present

Employment Classification: Employee

FET Office of Employment: 9070 Center Avenue, Rancho Cucamonga, CA 91730

Licenses:

BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS
LICENSING DETAILS FOR: 72217

NAME: TIE, UNG SING
LICENSE TYPE: CIVIL ENGINEER
LICENSE STATUS: CLEAR
ADDRESS
9070 CENTER AVENUE
RANCHO CUCAMONGA CA 91730
SAN BERNARDINO COUNTY

ISSUANCE DATE
JANUARY 25, 2008
EXPIRATION DATE
JUNE 30, 2024
CURRENT DATE / TIME
JANUARY 30, 2024
9:48:14 AM

Certified under this name	City	State	Certificates
Ung Sing Tie	Rancho Cucamonga	CA	Structural Steel and Bolting Special Inspector (expires 01/17/2026) Structural Welding Special Inspector (expires 01/17/2026) Prestressed Concrete Special Inspector (expires 01/17/2026) Reinforced Concrete Special Inspector Legacy (expires 01/17/2026)

Ung Sing Tie

Cert. No.	Valid from	Expiration	Status	Cert. Description	Visual Acuity*	Eye Form Date
20102311	Oct 2020	Oct 2026	Active	Certified Welding Inspector (CWI)	With Correction/Color Vision	Jan 2023

EMIL RUDOLPH, PE

GEOTECHNICAL ENGINEERING MANAGER

Years of Experience: 25+ Years

Education: Bachelor of Science in Geotechnical Engineering, University of Arizona

Licenses & Certifications:

- Professional Geotechnical Engineer – California No. 2767 (issued January 23, 2003; expires June 30, 2025)
- Professional Civil Engineer – California No. 64301 (issued January 23, 2003; expires June 30, 2025)
- Nuclear Gauge Operation Certification

Professional Summary

Mr. Rudolph will play a pivotal role in working alongside Grossmont Union High School District to oversee and manage geotechnical and forensic evaluations. His responsibilities encompass a range of critical tasks, including meticulously reviewing field exploratory data to discern subsurface geological conditions. Drawing upon his extensive expertise, Mr. Rudolph will conduct precise geotechnical calculations and meticulously assess earthwork compliance.

Moreover, Emil will provide invaluable guidance on all test results, leveraging his of experience in the field to ensure the accuracy and reliability of all findings. Mr. Rudolph's oversight will be instrumental in guaranteeing that every aspect of investigation adheres strictly to the necessary DSA and CGS regulations. His proactive approach will involve closely monitoring each evaluation, intervening as needed to address any emerging issues promptly. Emil will ensure that services are provided not only efficiently, but with precision and attention to detail, ultimately contributing to the success and longevity of the District's projects.

Select Project Experience | K-12 Education

- Little Lake City School District, Shade Shelters – Santa Fe Springs, CA
- El Rancho Unified School District, El Rancho HS Toilet Buildings – Pico Rivera, CA
- Sweetwater Union High School District, Otay Ranch High School Track and Field – Chula Vista, CA
- Vista Unified School District, Vista Magnet MS Entry Modifications and Façade – Vista, CA
- San Diego Unified School District, Horace Mann Middle School Whole Site Modernization – San Diego, CA
- San Diego Unified School District, Grant Elementary School Modernization – San Diego, CA
- San Diego Unified School District, Innovation Middle School Whole Site Modernization – San Diego, CA
- San Diego Unified School District, Monroe Clark Middle School Modernization – San Diego, CA
- San Diego Unified School District, Innovation Middle School Whole Site Modernization – San Diego, CA
- San Diego Unified School District, Logan Memorial Whole Site Modernization, Phase II – San Diego, CA
- San Diego Unified School District, Taft Middle School Make Space Project – San Diego, CA
- San Diego Unified School District, Health Sciences High School HVAC Rooftop – San Diego, CA
- San Diego Unified School District, Scripps Mesa STEAM Building – San Diego, CA
- UCSD 5511 RWNLLN – La Jolla, CA
- UCSD North Torrey Pines Living and Learning Neighborhood – La Jolla, CA
- UCR Multidisciplinary Research Building – Riverside, CA
- CSU San Marcos Urban Villages Block 3 Extended Learning – San Marcos, CA
- SDCCD Mesa College Center for Business and Technology – San Diego, CA
- Mira Costa Community College, Central Utility Plant and Slope Repair – Oceanside, CA
- Mira Costa Community College, Health & Wellness Hub Ph. 2 – Oceanside, CA
- Mira Costa Community College, Student Services Bldg – Oceanside, CA

EMIL RUDOLPH, PE

GEOTECHNICAL ENGINEERING MANAGER

Dates of Employment: April 2023 – Present

Employment Classification: Employee

FET Office of Employment: 9070 Center Avenue, Rancho Cucamonga, CA 91730

Licenses:

BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS
LICENSING DETAILS FOR: 64301

NAME: RUDOLPH, EMIL
LICENSE TYPE: CIVIL ENGINEER
LICENSE STATUS: CLEAR
ADDRESS
9474 CHESAPEAKE DR. SUITE 906
SAN DIEGO CA 92123
SAN DIEGO COUNTY

ISSUANCE DATE
JANUARY 23, 2003
EXPIRATION DATE
JUNE 30, 2025
CURRENT DATE / TIME
JANUARY 30, 2024
9:50:28 AM

BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS
LICENSING DETAILS FOR: 2767

NAME: RUDOLPH, EMIL
LICENSE TYPE: GEOTECHNICAL ENGINEER
LICENSE STATUS: CLEAR
ADDRESS
9474 CHESAPEAKE DR. SUITE 906
SAN DIEGO CA 92123
SAN DIEGO COUNTY

ISSUANCE DATE
JANUARY 25, 2008
EXPIRATION DATE
JUNE 30, 2025
CURRENT DATE / TIME
JANUARY 30, 2024
9:49:52 AM

LICENSE RELATIONSHIPS

NAME: RUDOLPH, EMIL
LICENSE/REGISTRATION TYPE: CIVIL ENGINEER
LICENSE NUMBER: 64301 **PRIMARY STATUS:** CLEAR

ADDRESS :
9474 CHESAPEAKE DR. SUITE 906
SAN DIEGO CA 92123
SAN DIEGO COUNTY

STEVE LINDQUIST — LABORATORY MANAGER

Years of Experience: 20+ Years

Licenses & Certifications:

- Nuclear Gauge Certified
- ACI Concrete Laboratory Testing Technician – Level 1
- ACI Masonry Laboratory Testing Technician
- ACI Concrete Field Testing Technician- Grade I
- ACI Aggregate Testing Technician- Level 1
- ACI Concrete Strength Testing Technician
- Fyfe Fiber Reinforced Polymer (FRP) Certified
- Dipstick Floor Profiler Certified

Professional Summary

With over 20 years of experience as a Laboratory Manager and Senior Field Technician, Steve is a seasoned professional with a deep understanding of code requirements related to testing and inspection in the laboratory and in the field. He is highly trained and certified by Fyfe in the inspection of Fiber Reinforced Polymer (Fiber Wrap) placement and is proficient in performing asphalt and concrete batch plant inspection.

Steve is an experienced and certified Caltrans Materials Tester, with extensive experience in logging in samples, soil testing including sieve and proctor testing, soil consolidation testing, field density testing, concrete cylinder fabrication and testing, and asphalt concrete testing. He is responsible for ensuring that the laboratory is certified to meet the requirements of OSHPD, AASHTO, City of Los Angeles, AMRL, City of San Diego, and the California Division of the State Architect (DSA).

Select Project Experience | K-12 Education

- Rialto Unified School District, Eisenhower High School New Classroom Building – Rialto, CA
- El Monte Unified High School District, SEMHS Modernization Project – El Monte, CA
- El Monte Unified High School District, SEMHS Parent Development Project – El Monte, CA
- Irvine Unified School District, Santiago Hills Elementary School Expansion – Irvine, CA
- Irvine Unified School District, Greentree Elementary School Expansion – Irvine, CA
- Irvine Unified School District, In-Plant Inspection (Various Sites) – Irvine, CA
- Irvine Unified School District, Measure E Series 3 Expansion at Culverdale Elementary School – Irvine, CA
- Irvine Unified School District, Irvine High School Performing Arts Center – Irvine, CA
- Irvine Unified School District, Loma Ridge ES Shade Structures – Irvine, CA
- Irvine Unified School District, District Office Expansion – Irvine, CA
- Compton Unified School District, Dominguez/Centennial HS Lights – Compton, CA
- Central School District, Various Sites; Admin Office: Front Lobby Security Upgrades – Rancho Cucamonga, CA
- Central School District, Dona Merced Geotechnical Investigation – Rancho Cucamonga, CA
- Central School District, Bear Gulch Geotechnical Investigation – Rancho Cucamonga, CA
- Jurupa Unified School District, Patriot High School Stadium Improvements – Jurupa Valley, CA
- Jurupa Unified School District, Pedley ES Portable Additions – Jurupa Valley, CA
- Alhambra Unified School District, Park ECC Playground – Alhambra, CA
- Barstow Unified School District, Barstow Junior High School Modernization – Barstow, CA

STEVE LINDQUIST — LABORATORY MANAGER

Dates of Employment: 2022 – Present

Employment Classification: Employee

FET Office of Employment: 9070 Center Avenue, Rancho Cucamonga, CA 91730

Licenses:

Steve W Lindquist
ACI Concrete Field Testing Technician – Grade I
Expires: March 12, 2026
Jurupa, CA 92509 United States

Steve W Lindquist
ACI Aggregate Testing Technician - Level 1
Expires: August 30, 2028
Jurupa, CA 92509 United States

Steve W Lindquist
ACI Concrete Strength Testing Technician
Expires: May 14, 2028
Jurupa, CA 92509 United States

Steve W Lindquist
ACI Aggregate Base Testing Technician
Expires: January 12, 2028
Jurupa, CA 92509 United States

Steve W Lindquist
ACI Masonry Laboratory Testing Technician
Expires: October 01, 2026
Jurupa, CA 92509 United States

CHRISTINA FELIX

LEAD SCHEDULER

Years of Experience: 7+ Years

Professional Summary

Christina has over 7 years of experience in dispatching and scheduling. Christina is experienced in quality control support fields including, scheduling inspectors based on specific jurisdictions, code and specification compliances such as California Building Code, American Welding Society, International Code Council, and American Concrete Institute. She identifies the nature of each client's needs and assigns the most qualified inspector or technician. Prepared schedule and informed inspectors with thorough details of what type of inspections will be required. Other duties include the following:

- Review DFR reports and test data sheets prior to distribution to clients
- Verification and assignment of qualified personnel
- Research details of construction projects, building, occupancy permits and other documentation
- Monitoring the status of construction inspection activities, reviewed inspector's reports, tracked permits and project status
- Working closely with marketing, Project Engineers (Civil and Geotechnical) and Inspector of Records (IOR) to ensure that all inspections for each project were tracked and documented properly.

Select Project Experience | K-12 Education

- Rialto Unified School District, Eisenhower High School New Classroom Building – Rialto, CA
- El Monte Unified High School District, SEMHS Modernization Project – El Monte, CA
- El Monte Unified High School District, SEMHS Parent Development Project – El Monte, CA
- Irvine Unified School District, Santiago Hills Elementary School Expansion – Irvine, CA
- Irvine Unified School District, Greentree Elementary School Expansion – Irvine, CA
- Irvine Unified School District, In-Plant Inspection (Various Sites) – Irvine, CA
- Irvine Unified School District, Measure E Series 3 Expansion at Culverdale Elementary School – Irvine, CA
- Irvine Unified School District, Irvine High School Performing Arts Center – Irvine, CA
- Irvine Unified School District, Loma Ridge ES Shade Structures – Irvine, CA
- Irvine Unified School District, District Office Expansion – Irvine, CA
- Irvine Unified School District, South Lake MS Ceramic Art Room Renovation – Irvine, CA
- Irvine Unified School District, Eastwood ES PA5B – Irvine, CA
- Irvine Unified School District, Eastwood ES Shade Structure – Irvine, CA
- Irvine Unified School District, Woodbridge HS New Performing Arts Building – Irvine, CA
- Compton Unified School District, Dominguez/Centennial HS Lights – Compton, CA
- El Monte Unified High School District, SEMHS Modernization Project – El Monte, CA
- Central School District, Various Sites; Admin Office: Front Lobby Security Upgrades – Rancho Cucamonga, CA
- Central School District, Dona Merced Geotechnical Investigation – Rancho Cucamonga, CA
- Central School District, Bear Gulch Geotechnical Investigation – Rancho Cucamonga, CA
- Jurupa Unified School District, Patriot High School Stadium Improvements – Jurupa Valley, CA
- Jurupa Unified School District, Pedley Elementary School Portable Additions – Jurupa Valley, CA
- Alhambra Unified School District, Park ECC Playground – Alhambra, CA
- Alhambra Unified School District, Alhambra HS Volleyball Court Renovation – Alhambra, CA
- Barstow Unified School District, Barstow Junior High School Modernization – Barstow, CA
- Santa Barbara Unified School District, Adams New Classroom and Improvement Project – Santa Barbara, CA
- Santa Barbara Unified School District, Peabody Charter School ADA Ramp – Santa Barbara, CA

CHRISTINA FELIX

LEAD SCHEDULER

Dates of Employment: August 2021 – Present

Employment Classification: Employee

FET Office of Employment: 9070 Center Avenue, Rancho Cucamonga, CA 91730

Licenses: *Not Applicable*

TAYLOR HULL — FIELD SUPERVISOR

Years of Experience: 12+ Years

Licenses & Certifications:

- ICC Soils Special Inspector
- ICC Reinforced Concrete Special Inspector
- ICC Prestressed Concrete Special Inspector
- ICC Structural Masonry Special Inspector
- ICC Structural Welding Special Inspector
- ICC Structural Steel and Bolting Special Inspector
- ICC Spray Applied Fireproofing Special Inspector
- ICC Master of Special Inspection
- ACI Field Testing Technician – Grade I
- ACI Masonry Field Testing Technician
- Authorized Climber/Rescuer – Cert. No.: 16327-92608-1

Professional Summary

With over 12 years of experience in the construction testing and inspection industry, Taylor is a highly knowledgeable professional with expertise in ICC and ASTM Standards. He is adept at managing documentation and communication, which enables him to work collaboratively with clients, subcontractors, building officials, and other team members. Taylor's extensive experience has enabled him to develop excellent problem-solving skills and a keen attention to detail.

As the overseer of Fenagh's field personnel, Taylor plays a crucial role in ensuring project compliance on job sites. He is responsible for reviewing daily field reports and ensuring compliance with DSA requirements, demonstrating his diligence and dedication to his profession. With his effective communication skills and strong attention to detail, Taylor is a valuable asset to any project team, ensuring that all work is completed to the highest standards and in compliance with all applicable codes and regulations.

Select Project Experience | K-12 Education

- Rialto Unified School District, Eisenhower High School New Classroom Building – Rialto, CA
- El Monte Unified High School District, SEMHS Modernization Project – El Monte, CA
- El Monte Unified High School District, SEMHS Parent Development Project – El Monte, CA
- Irvine Unified School District, Santiago Hills Elementary School Expansion – Irvine, CA
- Irvine Unified School District, Greentree Elementary School Expansion – Irvine, CA
- Irvine Unified School District, In-Plant Inspection (Various Sites) – Irvine, CA
- Irvine Unified School District, Measure E Series 3 Expansion at Culverdale Elementary School – Irvine, CA
- Irvine Unified School District, Irvine High School Performing Arts Center – Irvine, CA
- Irvine Unified School District, Loma Ridge ES Shade Structures – Irvine, CA
- Irvine Unified School District, District Office Expansion – Irvine, CA
- El Monte Unified High School District, SEMHS Modernization Project – El Monte, CA
- Rialto Unified School District, Solar Structures – Rialto/Colton, CA
- DGS MT0113 Riverside Campus Project, California School for the Deaf – Riverside, CA
- Alhambra Unified School District, PACIT Project – Alhambra, CA
- Alhambra Unified School District, Brightwood ES Modernization – Monterey Park, CA

TAYLOR HULL — FIELD SUPERVISOR

Dates of Employment: March 2023 – Present

Employment Classification: Employee

FET Office of Employment: 9070 Center Avenue, Rancho Cucamonga, CA 91730

Licenses:

Certified under this name	City	State	Certificates
Taylor Hull	Calimesa	CA	Structural Welding Special Inspector (expires 02/27/2025) Reinforced Concrete Special Inspector (expires 02/27/2025) Structural Masonry Special Inspector (expires 02/27/2025) Structural Steel and Bolting Special Inspector (expires 02/27/2025) Soils Special Inspector (expires 02/27/2025) Master of Special Inspection (expires 02/27/2025) Spray Applied Fire Proofing Special Inspector (expires 02/27/2025) Prestressed Concrete Special Inspector (expires 02/27/2025)

Taylor I Hull
ACI Concrete Field Testing Technician – Grade I
Expires: November 13, 2025
Yucaipa, CA 92399 United States

Taylor I Hull
ACI Masonry Field Testing Technician
Expires: June 11, 2026
Yucaipa, CA 92399 United States

LANCE BEAMON

MULTI-DISCIPLINED SPECIAL INSPECTOR

Years of Experience: 10+ Years

Licenses & Certifications:

- American Welding Society Certified Welding Inspector (CWI) – Certification No. 23044431
- ICC Soils Special Inspector
- ICC Reinforced Concrete Special Inspector
- ICC Structural Masonry Special Inspector
- ICC Structural Welding Special Inspector
- ICC Structural Steel and Bolting Special Inspector
- ICC Master of Special Inspection
- ACI Field Testing Technician – Grade I
- Certified Welder AWS D1.1
- General Electrician-Residential, Commercial and Industrial
- OSHA 30 Hour

Professional Summary

Lance is a skilled Special Inspector with over 10 years of construction experience. He has a deep understanding of building codes and standards and is proficient in reading plans, making him a valuable asset to any project team. Throughout his career, Lance has provided inspection and testing on a variety of projects throughout California, ranging from K-12 and municipalities to private developments.

Lance's duties include daily interfacing with contractors and project teams, ensuring that construction activities are in compliance with approved project plans and specifications. He is a proactive problem-solver and is always willing to go above and beyond to ensure that projects are delivered on time, on budget, and to the highest quality standards. Lance is a highly reliable and effective Special Inspector. His commitment to excellence and attention to detail make him a valuable asset to any project team, ensuring that all work is carried out to the highest standards and in compliance with all applicable codes and regulations.

Select Project Experience | K-12 Education

- El Monte Unified High School District, SEMHS Modernization Project – El Monte, CA
- Fullerton Joint Union High School District, Sunny Hills HS New Classroom Building – Fullerton, CA
- Central School District, Bear Gulch Elementary School Classroom Addition – Rancho Cucamonga, CA
- Alhambra Unified School District, Brightwood ES Modernization – Alhambra, CA
- Irvine Unified School District, Greentree Elementary School Expansion – Irvine, CA
- Irvine Unified School District, Santiago Hills Elementary School Expansion Project – Irvine, CA
- Irvine Unified School District, Irvine High School Performing Arts Center – Irvine, CA
- Irvine Unified School District, District Office Expansion – Irvine, CA
- Compton Unified School District, Dominguez/Centennial HS Lights – Compton, CA
- Barstow Unified School District, Barstow Junior High School Modernization – Barstow, CA
- Central School District, Dona Merced Elementary School Classroom Addition – Rancho Cucamonga, CA
- Central School District, Various Sites; Admin Office: Front Lobby Security Upgrades – Rancho Cucamonga, CA
- Alhambra Unified School District, PACIT Project – Alhambra, CA
- Alhambra Unified School District, Park ECC Playground – Alhambra, CA
- Santa Barbara Unified School District, Adams New Classroom & Improvement Project – Santa Barbara, CA

LANCE BEAMON — MULTI-DISCIPLINED SPECIAL INSPECTOR

Dates of Employment: March 2021 – Present

Employment Classification: Employee

FET Office of Employment: 9070 Center Avenue, Rancho Cucamonga, CA 91730

Licenses:

Certified under this name	City	State	Certificates
Lance Beamon	Perris	CA	Soils Special Inspector (expires 12/16/2025) Structural Masonry Special Inspector (expires 10/24/2025) Reinforced Concrete Special Inspector (expires 11/23/2025) Structural Welding Special Inspector (expires 12/15/2025) Structural Steel and Bolting Special Inspector (expires 12/14/2025) Master of Special Inspection (expires 12/16/2025)

Lance L Beamon

Cert. No.	Valid from	Expiration	Status	Cert. Description	Visual Acuity*	Eye Form Date
23044431	Apr 2023	Apr 2026	Active	Certified Welding Inspector (CWI)	With Correction/Color Vision	Jan 2023
22027024	Feb 2022	Feb 2025		Certified Associate Welding Inspector (CAWI)	With Correction/Color Vision	Jan 2023

Lance L Beamon
ACI Concrete Field Testing Technician – Grade I
Expires: December 11, 2025
Perris, CA 92570-7672 United States

JOHN VARGAS

MULTI-DISCIPLINED SPECIAL INSPECTOR

Years of Experience: 10+ Years

Licenses & Certifications:

- ICC Soils Special Inspector
- ICC Reinforced Concrete Special Inspector
- ICC Structural Masonry Special Inspector
- ICC Structural Welding Special Inspector
- ICC Structural Steel and Bolting Special Inspector
- ICC Master of Special Inspection
- ACI Field Testing Technician – Grade I

Professional Summary

With over 10 years of experience in the construction industry, John is a highly skilled professional with expertise in a wide range of projects. He has worked on various projects, including K-12, healthcare, high-rise multi-residential, high-rise office, and parking structures, demonstrating his versatility and adaptability to different project types.

John is well-versed in construction testing and inspection and maintains several special inspection credentials, making him a trusted advisor to his clients. He has extensive knowledge of building codes, regulations, and ordinances, and is highly proficient in comprehending plan documentation. With his strong attention to detail and deep understanding of construction, Mr. Vargas ensures that all work is carried out to the highest standards and in compliance with all applicable codes and regulations.

His experience and expertise make him a valuable asset to any project team. He is committed to delivering exceptional results and building strong relationships with clients and team members, ensuring that projects are delivered on time and with the highest level of quality.

Select Project Experience | K-12 Education

- Rialto Unified School District, Eisenhower High School New Classroom Building – Rialto, CA
- El Monte Unified High School District, SEMHS Modernization Project – El Monte, CA
- Irvine Unified School District, Greentree Elementary School Expansion – Irvine, CA
- Irvine Unified School District, Measure E Series 3 Expansion at Culverdale Elementary School – Irvine, CA
- Irvine Unified School District, Jeffrey Trail Middle School – Irvine, CA
- Irvine Unified School District, Irvine High School Performing Arts Center – Irvine, CA
- Irvine Unified School District, District Office Expansion – Irvine, CA
- Jurupa Unified School District, Jurupa Valley High School Storage Building – Jurupa Valley, CA
- Central School District, Dona Merced Elementary School Classroom Addition – Rancho Cucamonga, CA
- Central School District, Bear Gulch Elementary School Classroom Addition – Rancho Cucamonga, CA
- Barstow Unified School District, Skyline Elementary School Shade Structure – Barstow, CA
- Alhambra Unified School District, Brightwood Elementary School Modernization – Alhambra, CA
- Alhambra Unified School District, A, C, L Alterations and Seismic Upgrades – Alhambra, CA
- Alhambra Unified School District, Park ECC Playground – Alhambra, CA
- Alhambra Unified School District, PACIT Project – Alhambra, CA
- Barstow Unified School District, Barstow Junior High School Modernization – Barstow, CA
- Jurupa Unified School District, JVHS Storage Building – Jurupa Valley, CA

JOHN VARGAS — MULTI-DISCIPLINED SPECIAL INSPECTOR

Dates of Employment: April 2022 – Present

Employment Classification: Employee

FET Office of Employment: 9070 Center Avenue, Rancho Cucamonga, CA 91730

Licenses:

Certified under this name	City	State	Certificates
John Vargas	Perris	CA	Reinforced Concrete Special Inspector (expires 06/06/2024) Soils Special Inspector (expires 06/06/2024) Structural Welding Special Inspector (expires 06/06/2024) Structural Steel and Bolting Special Inspector (expires 06/06/2024) Structural Masonry Special Inspector (expires 09/19/2025) Master of Special Inspection (expires 09/19/2025)

John J Vargas Jr
ACI Concrete Field Testing Technician – Grade I
Expires: July 13, 2024
Perris, CA 92571 United States

JOSE MIGUEL ORTIZ

MULTI-DISCIPLINED SPECIAL INSPECTOR

Years of Experience: 5+ Years

Licenses & Certifications:

- ICC Reinforced Concrete Special Inspector
- ICC Structural Masonry Special Inspector
- ICC Structural Steel and Bolting Special Inspector
- ICC Spray Applied Fireproofing Special Inspector
- ACI Field Testing Technician – Grade I

Professional Summary

Jose is a skilled multi-certified Special Inspector with over 5 years of experience in the construction industry. He has worked on diverse projects ranging from K-12 to healthcare, demonstrating his extensive knowledge and understanding of construction codes and standards.

With exceptional communication skills and a keen attention to detail, he is an essential asset to any team. Jose is committed to ensuring that all work is carried out to the highest standards and in compliance with all applicable codes and regulations. His extensive experience and expertise make him a trusted advisor to his clients and a valuable resource to his team.

Select Project Experience | K-12 Education

- Irvine Unified School District, Irvine High School Performing Arts Center – Irvine, CA
- Central School District, Bear Gulch Elementary School Classroom Addition – Rancho Cucamonga, CA
- Alhambra Unified School District, A, C, L Seismic Upgrades and Modernization – Alhambra, CA
- Alhambra Unified School District, Brightwood Elementary School Modernization – Alhambra, CA
- Alhambra Unified School District, San Gabriel High School Fencing Project – Alhambra, CA
- Alhambra Unified School District, Park ECC Playground – Alhambra, CA
- Barstow Unified School District, Barstow Junior High School Modernization – Barstow, CA
- LAUSD Roosevelt High School (Floor Flatness/Floor Levelness) – Los Angeles, CA

JOSE MIGUEL ORTIZ — MULTI-DISCIPLINED SPECIAL INSPECTOR

Dates of Employment: December 2020 – Present

Employment Classification: Employee

FET Office of Employment: 9070 Center Avenue, Rancho Cucamonga, CA 91730

Licenses:

Certified under this name	City	State	Certificates
Jose Ortiz	MONTEBELLO	CA	Structural Masonry Special Inspector (expires 12/01/2024) Structural Steel and Bolting Special Inspector (expires 12/01/2024) Reinforced Concrete Special Inspector (expires 12/03/2025) Spray Applied Fire Proofing Special Inspector (expires 03/20/2024)

Jose Miguel Ortiz Jr
ACI Concrete Field Testing Technician – Grade I
Expires: May 20, 2027
Montebello, CA 90640 United States

EDGAR ROBLES

SENIOR FIELD TECHNICIAN | FIELD SUPERVISOR

Years of Experience: 13+ Years

Licenses & Certifications:

- Nuclear Gauge Certified
- American Concrete Institute Field Testing Technician – Grade I
- ICC Soils Special Inspector

Professional Summary

Mr. Robles is a highly skilled and seasoned Senior Field Technician and Field Supervisor with more than 13 years of hands-on experience in soils and construction materials testing across Southern California. His expertise spans a wide range of construction projects, from street construction and rehabilitation to infrastructure upgrades and slope repairs, as well as commercial and industrial building projects.

In his role, Edgar regularly interacts with project inspectors, contractors, and construction managers, ensuring smooth project execution. Beyond overseeing field activities, he also conducts vital tasks such as observation and testing subgrade soils, aggregate base rock, trench backfills, asphalt concrete paving, and concrete.

Select Project Experience | K-12 Education

- Rialto Unified School District, Eisenhower High School New Classroom Building – Rialto, CA
- Irvine Unified School District, Loma Ridge ES Shade Structures – Irvine, CA
- Irvine Unified School District, District Office Expansion – Irvine, CA
- Little Lake City School District, Shade Shelters (Various Sites) – Santa Fe Springs, CA
- Miracosta Community College, Student Services Building – Oceanside, CA
- Fullerton College, Site Barrier Removal Project – Fullerton, CA
- CSU Fresno, Central Utility Plant Replacement – Fresno, CA
- Jurupa Unified School District, Patriot High School Stadium Improvements – Jurupa Valley, CA
- Jurupa Unified School District, Pedley Elementary School Portable Additions – Jurupa Valley, CA
- Central School District, Dona Merced Elementary School Geotechnical Investigation – Rancho Cucamonga, CA
- Central School District, Bear Gulch Elementary School Geotechnical Investigation – Rancho Cucamonga, CA
- Alhambra Unified School District, PACIT Project – Alhambra, CA
- Alhambra Unified School District, Park ECC Playground – Alhambra, CA
- Barstow Unified School District, Barstow Junior High School Modernization – Barstow, CA
- Santa Barbara Unified School District, Adams New Classroom and Improvement Project – Santa Barbara, CA
- Pedley Elementary School New Portables – Riverside, CA
- California School for the Deaf, Sidewalk and Walkway Improvements – Riverside, CA
- Katella High School, Existing Building and Quad Improvements – Anaheim, CA
- Costa Mesa High School Performing Arts Center – Costa Mesa, CA
- Rialto Unified School District, Eisenhower High School New Classroom Building – RIalto, CA
- El Monte Unified High School District, SEMHS Modernization Project – El Monte, CA

EDGAR ROBLES — SENIOR FIELD TECHNICIAN | FIELD SUPERVISOR

Dates of Employment: March 2018 – Present

Employment Classification: Employee

FET Office of Employment: 9070 Center Avenue, Rancho Cucamonga, CA 91730

Licenses:

Certified under this name	City	State	Certificates
Edgar Robles	Fontana	CA	Soils Special Inspector (expires 07/14/2024)

Edgar G Robles
ACI Concrete Field Testing Technician – Grade I
Expires: May 19, 2028
Fontana, CA 92337-2786 United States

WILLIAM AGUILERA — ACI FIELD TESTING TECHNICIAN

Years of Experience: 10+ Years

Licenses & Certifications:

- Nuclear Gauge Certified
- ACI Concrete Field Technician – Grade I

Professional Summary

William (Willy) is a highly experienced soils and ACI concrete field testing technician with over 10 years of experience in the construction industry. He has worked on a wide range of projects, from K-12 facilities to road improvements and ground-up construction, demonstrating his versatility and adaptability to different project types.

Willy's communication skills, diligence, and dedication to his profession make him a great addition to any project team. He is highly proficient in performing field testing and inspections and is committed to ensuring that all work is carried out to the highest standards and in compliance with all applicable codes and regulations.

With his extensive experience and deep understanding of construction, Willy is a reliable and effective field testing technician. He is proactive in identifying potential issues and is always willing to go above and beyond to ensure that projects are delivered on time, on budget, and to the highest quality standards.

Select Project Experience | K-12 Education

- Rialto Unified School District, Eisenhower High School New Classroom Building – Rialto, CA
- El Monte Unified High School District, SEMHS Modernization Project – El Monte, CA
- El Rancho Unified School District, El Rancho Toilet Building – Pico Rivera, CA
- Little Lake City School District, Shade Shelters – Santa Fe Springs, CA
- Barstow Unified School District, Skyline Elementary Shade Structure – Barstow, CA
- Irvine Unified School District, District Office Expansion – Irvine, CA
- Irvine Unified School District, Irvine High School Performing Arts Center – Irvine, CA
- Jurupa Valley Unified School District, Pedley Elementary School New Portables –Jurupa Valley, CA
- Jurupa Valley Unified School District, JVHS Storage Building – Jurupa Valley, CA
- Jurupa Valley Unified School District, Camino Real ES – Jurupa Valley, CA
- Central School District, Coyote Canyon ES Administration Office Lobby Security – Rancho Cucamonga, CA
- Barstow Unified School District, Skyline ES Shade Structure – Barstow, CA
- Santa Barbara Unified School District, Adams New Classroom & Improvement Project – Santa Barbara, CA
- Santa Barbara Unified School District, La Colina Jr. HS Roofing Replacement – Santa Barbara, CA
- Santa Barbara Unified School District, Goleta Valley Jr. HS Roofing Replacement – Santa Barbara, CA
- Debbie Allen Dance Academy – Los Angeles, CA

WILLIAM AGUILERA — ACI FIELD TESTING TECHNICIAN

Dates of Employment: July 2020 – Present

Employment Classification: Employee

FET Office of Employment: 9070 Center Avenue, Rancho Cucamonga, CA 91730

Licenses:

William Aguilera
ACI Concrete Field Testing Technician – Grade I
Expires: April 16, 2026
Riverside, CA 92509-1326 United States

SECTION 3
QUALIFICATIONS

PROJECT/CONTRACT CONTROLS

- ***Budget Development.*** We are committed to working collaboratively with ALD to identify all items that are required to be within our scope for each requested task order, and we will prioritize identifying any potential for value engineering savings on each project. This will include direct conversations with all project stakeholders to accurately determine specific project scheduling needs. Fenagh prides itself on leaving no stone unturned in respect to your project budgets.
- ***Project Meetings.*** Our core Project Management team and Lead field personnel will participate in all preconstruction, project progress, and any additional project-related meetings, as determined by ALD.
- ***Project Management.*** Project Management, Project Engineers, and Field Supervisors will remain actively involved in the day-to-day operations of each project that we are assigned to.
- ***Budget Management.*** Your designated Project Manager(s) will track project budgets on a monthly basis. Budget Update Reports will be provided with each invoice, for the purpose of identifying each scope and the status of the overall project budgets. We will communicate directly with ALD should we encounter any issues that may potentially impact any project budget.

COMMUNICATION PLAN

Fenagh's guaranteed response time is ***24 hours***. However, our team is flexible and can meet short notice service requests in most situations. We will provide 24-hour access to key project personnel to ensure that ALD receives an immediate response to any urgent project or emergency situation.

1. **Jeff Johnson**
Senior Project Executive
Cell: (909) 587-6374
Email: Jjohnson@fenaghengineering.com

2. **Kevin Ramirez**
Senior Project Manager (24/7 contact)
Cell: (909) 727-1431
Email: KRamirez@fenaghengineering.com

3. **Taylor Hull**
Field Supervisor
Cell: (951) 532-3999
Email: THull@fenaghengineering.com

4. **Bruce Tie, PE**
Principal Engineer
Office: (909) 587-6374
Cell: (909) 276-8413
Email: BTie@fenaghengineering.com

5. **Steve Lindquist**
Laboratory Manager
Office: (909) 587-6374
Email: SLindquist@fenaghengineering.com

6. **Christina Felix**
Lead Scheduler
Cell: (909) 257-9431
Email: CFelix@fenaghengineering.com

At Fenagh Engineering and Testing, we recognize the significance of integrating seamlessly with our clients' Project Teams. It is our commitment to provide outstanding on-call professional services, customized to the specific requirements of each project. We are devoted to maintaining the highest standards of professionalism and technical proficiency, guaranteeing that ALD receives unparalleled support and satisfaction.

Every project, regardless of its scale, receives our commitment to excellence. Our accredited laboratory is equipped with expertly qualified materials testing, certified inspectors, and licensed engineers, all dedicated to upholding the strictest quality standards. This approach ensures that every project we undertake meets and surpasses the expectations of quality, precision, and reliability.

BRIEF SUMMARY OF PROJECT UNDERSTANDING

Upon a comprehensive review, the contract scope for the ALD solicitation encompasses the following two key areas: Construction Inspection/Testing Services and Soils Engineering/Geotechnical Services.

Construction Inspection/Testing: We understand that services may include inspections of structural steel, concrete, masonry, and/or welding per Chapter 17 of the LA County Building Code. Fenagh is capable of providing the following services to ALD:

INSPECTION SERVICES

- Soils/Asphalt Compaction Testing
- Reinforced Concrete
- Batch Plant
- Shotcrete
- Masonry
- Structural Steel Field Welding
- Structural Steel Shop Fabrication
- High-Strength Bolting
- Non-Destructive Testing
- Anchor/Dowel Installation

MATERIAL TESTING

- Aggregates/Soils
- Asphaltic Concrete
- Bituminous Materials
- Fireproofing
- Shotcrete
- Concrete
- Reinforcing Steel
- Prestressed Steel Tendons
- Concrete Masonry Units

Soil Engineering/Geotechnical Services: We understand that ALD may require preliminary site investigations, focusing on site soil analysis, foundation design, excavation, backfill, etc. Services cover field compaction, lab testing of soils, aggregates, asphalt, concrete, and inspection of grading, excavation, and concrete placement operations, as required by any LA County Building Code Ordinance. Fenagh is capable of the following geotechnical services:

GEOTECHNICAL SERVICES

- Geotechnical Engineering
- Engineering Geology
- Field Exploration
- Seismic Hazard Evaluation
- Grading Observation and Testing
- Soils/Asphalt Compaction Testing

SOIL TESTING

- Field In-Place Density Tests
- Review Soil Over-Excavations
- Maximum Dry Density
- Optimum Moisture Content
- Expansion Index Tests

SOIL TESTING

- Direct Shear Tests
- Sieve Analysis
- Corrosion Testing
- Plasticity Indices

When provided project scopes, project plans and specifications, and a construction schedule, it will be Fenagh's responsibility to provided ALD a proposal with estimated services, hours, and a not-to-exceed estimate. Upon approval, a written NTP is issued for the work order.

PROJECT CONTROLS

- ***Quality Control Methods.*** Fenagh has implemented a rigorous in-house quality control program designed to guarantee comprehensive review and accuracy in all aspects of our work, including plans, specifications, reports, and invoices. This meticulous process involves key team members – our Account/Project Manager, Field Supervisors, Project Engineer(s), laboratory staff, and field staff.

  Our quality control strategy extends beyond simple plan reviews. It encompasses regular performance evaluations, precise equipment calibration, thorough reporting, and continuous verification of staff qualifications and certifications. The overarching goal of this thorough and detailed QC process is to ensure that every required element and objective is not only achieved, but also meticulously documented. This commitment to quality control is integral to our mission of delivering superior service and reliable results.

- ***Budget Development.*** We are dedicated to fostering a collaborative partnership with ALD, focused on identifying all necessary scope elements for each individual Work Order. Our commitment extends to actively seeking opportunities for value engineering savings at every project stage. This approach involves engaging in direct, meaningful conversations with all project stakeholders to thoroughly understand and accommodate the specific scheduling requirements of the project. Our goal is to ensure a seamless, efficient process that aligns perfectly with the District's objectives and timelines.

- ***Budget Management.*** Our designated Account/Project Manager(s) will diligently oversee the project budgets from start to finish. To keep you the District updated, we will include Monthly Budget Update Reports with invoices, detailing the status of each scope item and providing a comprehensive view of the overall project budgets. Should any potential issues arise that may affect any project budget, we will promptly and directly communicate with the District. Our proactive stance ensures not only the delivery of exceptional service, but also the maintenance of complete transparency at every stage of each project we are assigned to.

- ***Project Management.*** The cornerstone of successful project management is effective communication. Our team has established a process for every conceivable scenario. Regular and clear communication will ensure that the District always experiences the professional and timely service they expect. This ethos permeates every level of our organization – from management to engineering to administration. Each team member is acutely aware of their responsibilities and roles, a factor that has been instrumental to our success.

  Our approach is intensely customer-focused, facilitating efficient and proactive project management. This comprehensive and communicative strategy exemplifies our commitment to excellence and client satisfaction.

- ***Project Meetings.*** Our standard operating procedure mandates active involvement from our Project Management team and Special Inspectors in all preconstruction and ongoing project progress meetings. They will participate in any additional meetings deemed essential by both the on-site Project Teams and ALD. This practice guarantees that our team remains thoroughly engaged, offering crucial insights and expert guidance throughout the entirety of every project's lifecycle.

- ***Response Time.*** Every member of our team is equipped with cell phones, laptops, and/or tablets, ensuring that your assigned Project Team is accessible at all times, including after business hours and on weekends. To guarantee an instant response to your scheduling requirements, our Dispatch Manager is on call 24 hours a day. This setup is part of our commitment to provide continuous support and swift responses to any of the District's needs.

DOCUMENT CONTROL

All project documentation, including inspection reports, materials testing reports, and administrative files, will be meticulously stored on our secure internal server ***and*** within our cloud-based ELAS™ portal. These critical documents will be managed under the vigilant oversight of our designated Principal Engineer, Ung Sing (Bruce) Tie, PE, ensuring their safety and accessibility.

DAILY FIELD REPORTS (DFR'S)

Field personnel will prepare a Daily Field Report (DFR) that provides a detailed summary of their observations, as they are related to the progress of the project. An initial copy of the DFR will be prepared on-site and all applicable documents will be sent electronically to ALD and any designated Project Team members, per established project distribution. All Daily Field Reports (DFRs) are efficiently generated and securely stored within our ELAS™ system. Clients can conveniently access these reports at any time through our user-friendly Client Portal.

LABORATORY TESTING RESULTS

We are committed to delivering reports and laboratory results promptly, utilizing approved testing methods for accuracy and efficiency. Our laboratory is equipped to process many test results within a 24 to 48-hour window, depending on the time of sample receipt, ensuring that ALD benefits from timely and reliable service.

Upon the finalization and validation of laboratory tests for construction material acceptance by Ung Sing (Bruce) Tie, PE, all approved laboratory reports will be accessible through the ELAS™ Client Portal. These reports will then be systematically distributed in line with the project distribution, ensuring smooth and consistent information flow.

WEEKLY SUMMARY REPORTS

Fenagh's Weekly Summary Report offers a comprehensive overview of all on-site services provided each day, along with detailed results of any laboratory testing. Compiled at the end of each work week, these reports are meticulously prepared and then distributed in accordance with the established project distribution, ensuring all stakeholders are consistently informed of weekly progress and outcomes.

NOTIFICATION OF NON-COMPLIANT MATERIALS OR TEST RESULTS

Failing construction material test results and construction deficiencies will result in the initiation of a Non-Conformance Report (NCR). Material test failures and/or non-conformances will be documented and promptly reported to all appropriate parties.

Corrective actions are to be initiated by the organization responsible for the non-conformance, and the results will be reported to ALD and any designated Project Team members. Re-inspection or re-testing ***may*** be required before construction will be allowed to proceed.

Scope of Work	Deliverables	Expected Time of Completion
Field Inspection and Laboratory Testing		
• Concrete Mix Design Review • Concrete Placement Inspection • Shotcrete ***Total Inspectors: 75***	Mix design review/concrete placement, sampling, and lab testing/Daily Field Report (DFR) left on-site/PDF Summary Report is distributed to ALD and the designated Project Team, then posted to ELAS™ client portal and uploaded to DSA box.	**Inspections:** Within 24-48 hours of request (DFR left on-site) **Daily Report:** Sent day of inspection. **Mix Design Review:** Within one week of submittal
• Reinforcing Steel Field Inspection • Mill Certification Review ***Total Inspectors: 75***	Field inspections and material ID/Daily Field Report (DFR) left on-site/PDF Summary Report is distributed to ALD and the designated Project Team, then posted to ELAS™ client portal and uploaded to DSA box.	**Inspections:** Within 24-48 hours of request (DFR left on-site) **Daily Report:** Sent day of inspection. Summary Report sent weekly with supporting laboratory results
• Concrete Cylinder Compression ***Total Inspectors: 90***	Field sampling, cylinder prep and lab testing/Daily Field Report (DFR) left on-site/PDF Summary Report is distributed to ALD and the designated Project Team, then posted to ELAS™ client portal and uploaded to DSA box.	**Testing:** One set of five (5) cylinders of each concrete class placed in any one day. One set of (5) for each 5,000 sq ft of surface area placed. 7 days – 1-cylinder break 14 days – 1-cylinder breaks 28 days – 2-cylinder breaks 1 hold cylinder for later testing
• Concrete Anchor Installation • Epoxy Inspection/Testing • Dowels • Non-Shrink Grout ***Total Inspectors: 45***	Periodic inspection to be performed during installation including drilled holes after cleaning, proper edge distances, depths, and spacings. Daily Field Report (DFR) left on-site/PDF Summary Report is distributed to ALD and the designated Project Team, then posted to ELAS™ client portal and uploaded to DSA box.	**Inspections:** Within 24-48 hours of request (DFR left on-site) Daily **Testing:** Pull/Torque Testing per project requirements. Tension testing performed in accordance with plans/specs.
• Structural Welding • Structural Bolting • Material ID • Mill Report Review and Verification ***Total Inspectors (CWI): 21***	Shop/Field Observations and Inspections documented in Daily Field Report. Report is left on site at end of day. PDF Summary Report Delivered and end of each week to ALD and the designated Project Team, then portal and uploaded to DSA box. Reports include item inspected, welder name, welder certificate, certificate expiration date, certified positions.	**Inspections:** Within 24-48 hours of request (DFR left on-site) Daily **Testing:** All high strength bolting is subject to inspection & testing. Fenagh will test a minimum of 10 percent of ALL bolts, and at least 2 bolts in each connection with a calibrated wrench (torque wrench) to verify required bolt tension was achieved. **If Mill Certificates for bolts are not available, addition testing will be performed*

Scope of Work	Deliverables	Expected Time of Completion
Field Inspection and Laboratory Testing		
• Fireproofing Inspection ***Total Inspectors: 25***	Field inspections, sampling, and lab testing/ Daily Field Report (DFR) left on-site/PDF Summary Report is distributed to ALD and the designated Project Team, then posted to ELAS™ client portal and uploaded to DSA box.	**Inspections:** Within 24-48 hours of request (DFR left on-site) **Daily Report:** Sent day of inspection. Summary Report sent weekly with supporting laboratory results **Testing:** Tested upon arrival results provided within 5 days
• Non-Destructive Testing ***Total Inspectors: 18***	Liquid Penetrant Inspection: ASTM E165 Magnetic Particle Inspection: ASTM E 709 Ultrasonic Inspection: ASTM E 164 Radiographic Inspection: ASTM E 94 Reports posted to ELAS™ client portal and uploaded to DSA box.	**Daily Report:** Sent day of inspection. Summary Report sent weekly with supporting laboratory results **Testing:** Tested upon arrival. Results provided in Daily Field Report within 24 hours
• Welding (Light Gauge Framing) ***Total Inspectors (ICC): 44***	On-site inspections will include welding (per approved welding procedures), studs/track attachments, and screw spacing. Reports posted to ELAS™ client portal and uploaded to DSA box.	**Inspections:** Within 24-48 hours of request (DFR left on-site) **Daily Report:** Sent day of inspection. Summary Report sent weekly with supporting laboratory results
• Concrete Unit Masonry • Grout Sampling • Mortar Sampling • Prism Testing • Reinforcing Steel Inspection & Testing ***Total Inspectors (DSA): 12***	Take samples of Mortar during Masonry Construction, in accordance with ASTM C 109, and grout in accordance with ASTM 1019. Twelve CMU units per lot (10,000 units to 100,00 units) Reports posted to ELAS™ client portal and uploaded to DSA box.	**Inspections:** Within 24-48 hours of request (DFR left on-site) **Testing:** Prism – two specimens per day Mortar – one set of six per day Grout – four specimens per day
• Steel Fabrication Shop Inspection • On-Site Welding and Bolting Inspections (steel structures and reinforcing steel, including nondestructive testing (NDT), if required by project documents ***Total Inspectors: 32***	Off-site shop inspections, observations and testing (NDT) Inspectors will check in daily with CM/GC to communicate any changes or compliance issues in real time. Daily Field Report (DFR)/PDF Summary Report is distributed to ALD and the designated Project Team, then posted to ELAS™ client portal and uploaded to DSA box.	**Inspections:** Within 24-48 hours of request (DFR left on-site) **Daily Report:** Sent day of inspection. Summary Report sent weekly with supporting laboratory results **WPS Review:** Within one week of submittal

Scope of Work	Deliverables	Expected Time of Completion
Professional Services		
• At Project Start/Construction Start Notice	Engineering and Project Management Team will complete DSA 109 (Geotechnical Engineer of Record Takeover) and DSA 102 Form.	Submitted to DSA and completed within 24 hours.
• Preparation and Distribution of Weekly Summary Reports	PDF Summary Report is distributed to ALD and the designated Project Team, then posted to ELAS™ client portal.	Sent one week after inspections occur, summarizes activities and provides all related laboratory test results.
• Coordination and Scheduling of Inspection Services with the Contractor and the Project Manager	Coordination by Field Supervisor and Lead Scheduler	Inspections can be provided within 24 of being requested. **In most cases, Fenagh can fulfill short-notice services requests, if deemed necessary.*
• Preparation of DSA 291-Laboratory of Record Verified Report • Preparation of DSA 293-Geotechnical Verified Report	Preparation Coordinated by Project Engineer, Project Manager and Laboratory Manager	Upon completion of Fenagh's scope of work/completion of project. As requested by ALD. **Delivered/uploaded within one week of request.*

ADVANCED TECHNOLOGIES | ELAS™

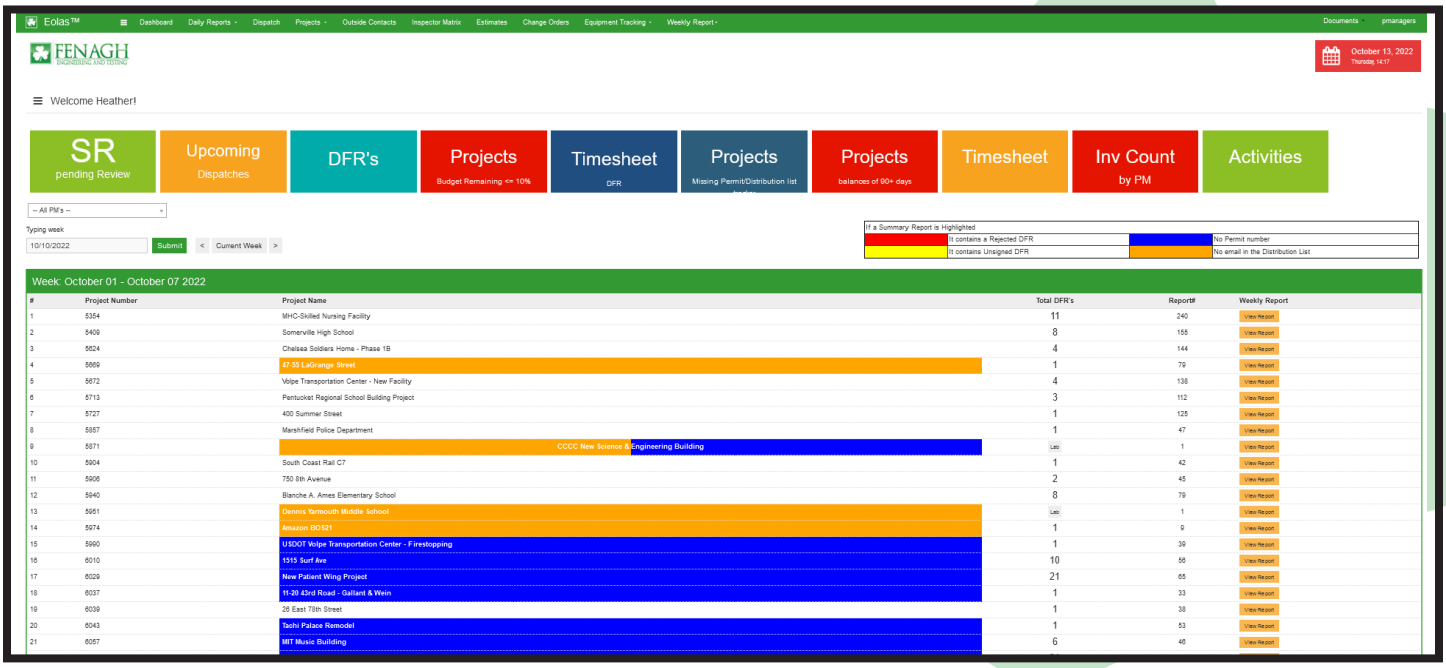
Fenagh has innovated **ELAS™**, a comprehensive proprietary reporting system, designed to streamline every phase of project management – from first contact with our client to project close-out. This versatile platform is integral to our operations, encompassing project estimation, management, dispatch, and the reporting of materials testing and daily field activities. **ELAS™** also plays a crucial role in budget tracking and ensuring project compliance.

Our field and laboratory teams utilize **ELAS™** for seamless report integration, allowing for efficient report distribution, including transferring data to other mandatory project-specific software, if required. **ELAS™** is specifically engineered to manage service requests, schedule coordination, compliance documentation, and facilitate the array of services crucial for project close-out and document control.

Enhancing client engagement, our secure Client Portal is a key feature of **ELAS™**. It offers clients immediate and continuous access to their project documents. Authorized personnel can effortlessly access vital inspection, testing, and engineering documents at any time, ensuring transparency and convenience in project oversight

Features of **ELAS™** include:

- Customized and comprehensive report preparation
- Efficient dispatching coordination with inspectors and clients
- Inspection tracking capabilities
- Web-based reporting with additional security features
- Ability to download and print reports
- Billed-to-budget reports
- Summary invoices
- Statistical analysis and quality control charting of project data



ELAS™ Snapshot

SECTION 4
COST SECTION

BILLING PRACTICES

Our services are billed based on time and materials as per our standard scope of work.

Invoices are meticulously prepared and distributed by the 15th of each month. Any services provided within a particular month will be invoiced in the subsequent month. For instance, work conducted in January will be invoiced and distributed in February, maintaining clarity and timeliness.

Each invoice itemizes the following essential details:

- Date of Service
- Description of Services
- Hours/Units Billed
- Hourly/Unit Rate
- Total Invoice Amount Due

Prior to submission to the District, Fenagh's Billing Coordinators collaborate closely with the assigned Project Manager(s) to ensure accuracy and completeness of invoicing.

Any services scheduled beyond the contracted scope will be communicated beforehand, allowing for transparent discussion should there be any budgetary implications.

Requests for overtime hours require approval by the District's Project Team before any additional hours are incurred, ensuring alignment with project requirements and budget constraints.

PROPOSED RATE INCREASES

The provided Schedule of Fees will remain in place from 2024-2026, unless formally altered by the District. Any proposed adjustments to rates will be based on DIR wage determinations, and the relevant consumer price index (CPI) rate. It is our policy that approval for rate modification must be obtained in writing from the District upon mutual agreement.

PREVAILING WAGE REQUIREMENTS

Fenagh Engineering and Testing holds registration as a contractor with the Department of Industrial Relations (DIR), and strictly adheres to prevailing wage laws and determinations.

Invoices will be accompanied by relevant certified payroll documents, if deemed necessary by the District.

DISCOUNTED RATES

We are committed to providing exceptional value to our clients. As part of our dedication to meeting clients needs effectively and affordably, Fenagh offers deeply discounted hourly and/or unit rates for a wide range of services while engaged in on-call professional services agreements. This approach ensures that our clients not only receive high-quality solutions, but also benefit from cost-effective arrangements that support their project requirements. We firmly believe in fostering long-term partnerships built on trust, reliability, and mutual success.

ALTADENA LIBRARY DISTRICT (ALD)
FET 2024 - 2026 SCHEDULE OF FEES
INSPECTIONS, ENGINEERING & SPECIAL SERVICES

	* FIELD INSPECTION SERVICES	Local Code	National Standard	Standard Rate/Hour	Discounted Rate/Hour
	Steel Visual Welding			~~$161.00~~	$107.00
	Steel Visual Bolting			~~$161.00~~	$107.00
	Nondestructive - UT, MT, PT			~~$161.00~~	$120.00
	Concrete ACI Sampling			~~$161.00~~	$105.00
	Batch Plant Inspection			~~$161.00~~	$75.00
	Concrete ICC/ACI-II (Rebar/Placement)			~~$161.00~~	$105.00
	Concrete PT			~~$161.00~~	$105.00
	Masonry			~~$161.00~~	$105.00
	Fireproofing (Thickness/Density)			~~$161.00~~	$107.00
	Firestopping/Fire-safing			~~$161.00~~	$120.00
	Soil Technician w/Nuclear Gauge and/or Sand Cone (Portal - Portal))			~~$161.00~~	$110.00
	Asphalt Technician w/Nuclear Gauge (Portal - Portal)			~~$161.00~~	$110.00
	Roofing & Weatherproofing/Waterproofing			~~$161.00~~	$107.00
	Structural Wood Framing			~~$161.00~~	$107.00
	Shotcrete			~~$161.00~~	$107.00
	Fiber Reinforced Concrete (FRP)			~~$161.00~~	$110.00
	Lead/Multi-Disciplined Inspector			~~$161.00~~	$110.00
	Specialty Inspector where certification not above is required			~~$161.00~~	$110.00
	Certified Cal OSHA Tower Inspector			~~$161.00~~	$125.00
	Quality Control Manager			~~$161.00~~	$125.00
	ASNT Level III			~~$161.00~~	$125.00
	Laboratory Technician/Sample Runner			~~$161.00~~	$105.00
	Project Coordinator			~~$161.00~~	$100.00
	Technician Typist			~~$161.00~~	$100.00
	****PROFESSIONAL ENGINEERING SERVICES**				
	Principal Engineer (Geotechnical/Civil/Structural)			~~$300.00~~	$225.00
	Consulting Engineer (Civil/Structural)			~~$350.00~~	$175.00
	Associate Engineer, Licensed			~~$225.00~~	$165.00
	Staff Geotechnical Engineer			~~$245.00~~	$165.00
	Junior Staff Engineer			~~$225.00~~	$130.00
	Project Manager			~~$165.00~~	$100.00
	Field Supervision			~~$165.00~~	$95.00
	ASNT Level III			~~$185.00~~	$140.00
	Drafting			~~$125.00~~	$75.00
	SPECIAL SERVICES				
	Portable and Mobile Laboratories, Concrete and Soils			QOR	
***	Off-Site Structural Steel or Precast Fabrication or Rebar Fabrication			~~$198.00~~	$75.00
*	Epoxy Bolt Proof Load/Pull Testing			~~$161.00~~	$125.00
*	Expansion Anchor Proof Load/Torque Testing			~~$161.00~~	$102.00
*	Coring, 1 Person (including equipment)			~~$348.00~~	$190.00
*	Coring, 2 Persons (including equipment)			~~$455.00~~	$310.00
	Engineering Project Research			QOR	
	Skidmore-Wilhelm Equipment Fee Per Hour			~~$80.00~~	NC
	Geotechnical Site Investigations/Foundation Reports			QOR	
	Rebound Hammer, Schmidt Hammer, Windsor Probe - Equipment Fee Per Hour			~~$275.00~~	NC
	Floor Flatness Testing FF/FL - (Equipment Fee $100/Hour)			~~$316.00~~	$190.00
	Floor Flatness Testing FF/FL - Report Fee			~~$535.00~~	$120.00
	Measuring Moisture Vapor Emission Rate (Calcium Chloride) - $100/Kit		ASTM F1869	~~$123.00~~	$102.00
	Relative Humidity Testing - ($100/kit)		ASTM F2170	~~$123.00~~	$102.00
	GPR (Ground Penetrating Radar) - Equipment Fee $175/Hour			~~$375.00~~	$190.00
	Concrete Crack Gauge Monitoring			~~$375.00~~	$215.00
	Building Evelope - Air Leakage Rate by Fan Pressure		ASTM E779	~~$803.00~~	$450.00
	Water Penetration of Windows, Skylights, Doors and Curtain Walls by Uniform or Cyclic Pressure		ASTM E1105	~~$4,050.00~~	$3,000.00
	Air and Water Infiltration Leakage Testing		AMMA 501.2	~~$4,050.00~~	$3,000.00
	Electronic Leak Detection of Roof (Vector Mapping)			~~$450.00~~	$190.00
	Air Content Test Equipment			~~$107.00~~	NC
	Slump & Temperature Equipment			~~$107.00~~	NC
	Fireproof Density and Adhesion/Cohesion Inspection Kit			~~$107.00~~	NC
	Dynamic Cone Penetrometer (DCP)			QOR	
	Gamma Gamma/ Cross Hole Sonic Logging (CSL) Testing			~~$4,306.00~~	$3,000.00
	Administration, Accounting, Special Projects, Notary, Certified Payroll			~~$134.00~~	$75.00
	Concrete/Grout/Mortar Mix Design Review (less than 48 hours notice - $500)			~~$375.00~~	$275.00
	Welding Procedure Review (less than 48 hours notice - $500)			~~$375.00~~	$275.00
	Welder Qualification Test Record		AWS	$1,070.00	

* Field inspection services will be billed in accordance with minimums shown on Basis of Charges.
**Professional engineering services and laboratory technician services will be billed at actual time.
*** All plant inspections are located within 50 miles of the project location. Steel shops will be AISC certified and concrete plants will be PIC certified.
**** Two inspections performed by the same inspector during a site visit will be billed at the combination rate.
***** Three or more inspections performed by the same inspector during a site visit will be billed at the multi-disciplined rate.

All Fees Subject to Basis of Charges

BASIS OF CHARGES

GENERAL

Fees for tests and inspection include cost of technician, normal equipment and regular reports. Engineering services other than supervisory will be charged at applicable rates. Fees for special projects, services overseas, or elsewhere in the United States, will be quoted on request. With prior notification to Client; charges are subject to change at any time. Fenagh reserves the right to adjust the rates quoted in this contract based upon any prevailing wage increases and/or changes in any industry requirements.

MINIMUM HOURLY CHARGES – INSPECTION

Technician personnel and the following minimum charges are contractual commitment:

One-half day or less	4 Hours
Over one-half day	8 Hours
Show-up time (less than 2 hours notice = 4 hour charge)	2 Hours

WORKING HOURS AND PREMIUM TIME

Regular workday is the first 8 hours between 6:00 am and 6:00 pm Monday through Friday. Premium time is as follows:

Overtime, Weekdays and Saturdays (first 8 hours)	1.5 x quoted hourly rate
Overtime Saturdays (over 8 hours) and Sundays (first 8 hours)	2 x quoted hourly rate
Overtime Sundays (over 8 hours) and Holidays	3 x quoted hourly rate
Shift differential, swing and graveyard - (Work performed between 2:00 pm and 4:00 am)	1.5 x quoted hourly rate

MISCELLANEOUS CHARGES - *Only Where Applicable*

Notary Services Fee	$25.00/each
Facsimile Charges. Plus $1.00/page (n/c for cover page)	$5.00 minimum
Wireless Router/Data Card for Jobsite Internet	$100.00/day
Parking Fees	At Cost
Air Travel	Cost Plus 5%
Outside Services	Cost Plus 20%
Per Diem	$125.00/day
Mileage (Out of Town Assignments)	Standard Federal Rate
Sample Pickup	$15.00/each
Weekend Sample Pickup	$75.00/hour
Project Administration	8% of Monthly Invoice
Samples Made by Others: Concrete Cylinders	N/A
Laboratory Sample Witness Fee	$100.00
EZ Cure Boxes (Thermostatically Controlled Curing Boxes)	QOR
Returned Check Fee	$100.00
Expedited Dispatch Request (inspections scheduled less than 12 hours notice)	1.5 X quoted hourly rate

TESTS

Testing fees shown include normal time for performing test. Samples requiring special preparation will be charged at the laboratory technician rate. Fees for tests not listed will be quoted upon request. There will be a minimum charge of $100.00 for any engineering report. Please note some tests maybe tested by sub consultants. Samples delivered to the laboratory after 3:00pm or samples needing results within 24 hours will incur a 50% mark-up.

LIMIT OF LIABILITY

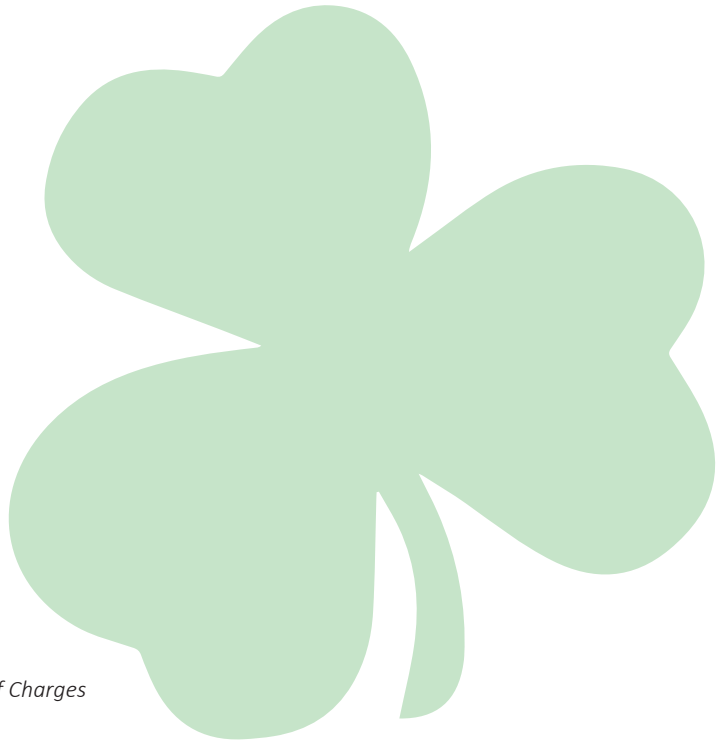
The total liability of Fenagh, LLC is limited to the contract dollar value.

INSURANCE

For the waiver of subrogation if required by client, a 2% Fenagh administrative fee will be added to all gross billings/revenue.

PAYMENT

Invoices will be submitted monthly or bimonthly for services performed during the preceding month and are payable on receipt. Interest of 1.5% per month (but not exceeding the maximum rate allowable by law) will be payable on any amounts not paid within 30 days, payment thereafter to be applied first to accrued interest and then to the principle unpaid amount. Attorney's fees or other costs incurred in collecting any delinquent amount shall be paid by client. Visa, MasterCard and American Express payments are accepted however fees will apply. Visa and MasterCard payments require an additional 3% on top of the amount of the invoice being paid. American Express payments require an additional 4% on top of the amount of the invoice being paid.



All Fees Subject to Basis of Charges

CONCRETE AND MASONRY TESTS

		Standard Rate/Each	Discounted Rate/Each
CONCRETE			
Compressive Strength of Cylindrical Concrete Specimens (6x12)	ASTM C39	~~$65.00~~	$35.00
Compressive Strength of Cylindrical Concrete Specimens (4x8)	ASTM C39	~~$55.00~~	$24.00
Compressive Strength of Cylindrical Concrete Specimens (over 8000 psi)	ASTM C39	~~$95.00~~	$65.00
Compressive Strength of Cylindrical Concrete Specimens (over 10000 psi)	ASTM C39	~~$95.00~~	$65.00
Compressive Strength of Lightweight Insulating Concrete	ASTM C495	~~$95.00~~	$65.00
Obtaining and Testing Sawed Beams and Drilled Cores of Concrete (cores)	ASTM C42	~~$250.00~~	$65.00
Flexural Toughness of Fiber Reinforced Concrete (Round Panel)	ASTM C1550	~~$300.00~~	$65.00
Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	ASTM C78	~~$210.00~~	$65.00
Length Change of Hardened Hydraulic-Cement Mortar and Concrete (Shrinkage 1 Sample)	ASTM C157	~~$200.00~~	$65.00
Shotcrete Nozzleman Qualification	ACI 506, ASTM C42 and C1140	~~$300.00~~	$140.00
Shotcrete Pre-Qualification Cores	ACI 506, ASTM C42 and C1140	~~$95.00~~	$65.00
Shotcrete Production Cores	ASTM C1140	~~$95.00~~	$65.00
Coefficient of Thermal Expansion	AASHTO T336	~~$360.00~~	$140.00
Determining Density of Structural Lightweight Concrete (Cylinders)	ASTM C567	~~$275.00~~	$140.00
Standard Specification for Concrete Made by Volumetric Batching and Mixing	ASTM C685	~~$675.00~~	$140.00
Cement Quality Sampling		~~$485.00~~	$140.00
Physical Testing of Gypsum, Gypsum Plasters and Gypsum Concrete	ASTM C472	~~$235.00~~	$140.00
Splitting Tensile Strength of Cylindrical Concrete Specimens	ASTM C496	~~$275.00~~	$140.00
Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression	ASTM C469	~~$260.00~~	$140.00
Grab Sample, Sealing and Storing in a Humidity and Temperature Controlled Room		~~$200.00~~	$140.00
Density of Hydraulic Cement	ASTM C188	~~$230.00~~	$140.00
Testing of Controlled Low Strength Material (CLSM) Test Cylinders	ASTM D4832	~~$200.00~~	$140.00
GFRC Pull Test	PCI	~~$260.00~~	$140.00
GFRC Flexural Test	PCI	~~$260.00~~	$140.00
Foaming Agents for Use in Producing Cellular Concrete Using Preformed Foam (Cell-Crete)	ASTM C796	~~$260.00~~	$140.00
MASONRY			
Compressive Testing of Grout (Masonry)	ASTM C1019	~~$85.00~~	$24.00
Compressive Strength of Hydraulic Cement Mortars Using 2" Cube Specimens	ASTM C109	~~$85.00~~	$26.00
Compressive Strength of Masonry Prisms	ASTM C1314	~~$175.00~~	$125.00
Testing Concrete Masonry Units and Related Units (Core Compression)	CBC 2105A.4	~~$175.00~~	$125.00
Compressive Strength of Molded Masonry Mortar Cylinders and Cubes (2" Sample)	ASTM C780 A7.6	~~$85.00~~	$26.00
Testing Concrete Masonry Units (CMU) and Related Units (Full Unit)	ASTM C140	~~$175.00~~	$125.00
Linear Drying Shrinkage of Concrete Masonry Units (Per Unit)	ASTM C426	~~$175.00~~	$125.00
Masonry Core Shear Testing		~~$175.00~~	$125.00
Testing Concrete Masonry Units (Absorption, Moisture Content, Unit Weight)	ASTM C140	~~$225.00~~	$125.00
Brick and Clay Tile (modulus of rupture, compression, saturation coefficient, suction rate, efflorescence)*	ASTM C67	~~$700.00~~	$125.00

All Fees Subject to Basis of Charges

SOILS, AGGREGATE, ASPHALTIC CONCRETE SERVICES & TESTS

SOILS		Standard Rate/Each	Discounted Rate/Each
Direct Shear Test of Soils Under Consolidated Drained Conditions	ASTM D3080	~~$375.00~~	$175.00
Caltrans Corrosivity Package		~~$350.00~~	$175.00
Determining Field and Laboratory Resistivity and pH Measurements for Soil and Water	CT643	~~$225.00~~	$175.00
Soils and Waters for Sulfate Content	CT417	~~$225.00~~	$175.00
Soils and Waters for Chloride Content	CT422	~~$225.00~~	$175.00
Swell Test Under 60psf Surcharge (per SNV Amendments to IBC)	ASTM D2435 (Modified)	~~$250.00~~	$175.00
Particle-Size Analysis of Soils (with Hydrometer)	ASTM D422	~~$400.00~~	$175.00
Pore Water Extraction and Determination of the Soluble Salt Content of Soils by Refractometer	ASTM D4542	~~$425.00~~	$175.00
Standard Test Method for Particle-Size Analysis of Soils (without Hydrometer)	ASTM D422	~~$350.00~~	$175.00
Liquid Limit, Plastic Limit, and Plasticity Index of Soils	ASTM D4318	~~$325.00~~	$175.00
Laboratory Compaction Characteristics of Soil Using Modified/Standard Effort	ASTM D1557/D698	~~$325.00~~	$175.00
Field Density Test for Compaction		~~$200.00~~	$175.00
Hydrometer Only	ASTM D422	~~$350.00~~	$175.00
pH of Soils	ASTM D4972	~~$300.00~~	$175.00
Relative Compaction of Untreated and Treated Soils and Aggregates	CT216	~~$400.00~~	$175.00
Determining the Resistance "R" Value of Treated and Untreated Bases, Subbases, and Basement Soils by the Stabilometer	ASTM D2844	~~$400.00~~	$175.00
Laboratory Determination of Water(*moisture) Content of Soil and Rock by Mass	ASTM D2216	~~$100.00~~	$175.00
Density of Soil in Place by the Drive-Cylinder Method	ASTM D2937	~~$275.00~~	$175.00
Expansion Index of Soils	ASTM D4829	~~$275.00~~	$175.00
Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter (Permeability)	ASTM D5084	~~$375.00~~	$175.00
Lab Compaction Characteristics of Soil 1 Point Proctor (Check Point)	ASTM D698/D1557	~~$225.00~~	$175.00
Maximum Index Density and Unit Weight of Soils Using a Vibratory Table	ASTM D4253	~~$290.00~~	$175.00
Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density	ASTM D4254	~~$290.00~~	$175.00
Density of Hydraulic Cement	ASTM C188	~~$275.00~~	$175.00
Volatile Organic Content	EPA 8260B	QOR	QOR
Semi Volatile Organics by GC/Ms (Basic Target List)	EPA 8270C	QOR	QOR
Total Organic Carbon	ASTM 2974/EPA 5310Bm	QOR	QOR
ICP Metals Concentration	EPA 6020 - CAM/CCR 17	QOR	QOR
Total Extractable Petroleum Hydrocarbons: TPH, MTBE, Benzene,Toluene, Ethylbenzene, Zylenes, %SS	EPA 8015B	QOR	QOR
ICP Metals Concentration	EPA 6020	QOR	QOR
pH	EPA 9045D	~~$350.00~~	$175.00
Sequential Batch Extraction of Waste with Acidic Extraction Fluid	ASTM D5284	QOR	QOR
Chromium Soluble	EPA 7196A	QOR	QOR
Moisture, Ash and Organic Matter of Peat and Other Organic Soils (Organic Content)	ASTM D2974	~~$275.00~~	$175.00
Universal Soil Classification System (USCS) Test	ASTM D2487	~~$200.00~~	$175.00
California Bearing Ratio Test	ASTM D1883	~~$250.00~~	$175.00
Unconfined Compressive Strength of Cohesive Soil	ASTM D2166	~~$125.00~~	$175.00

AGGREGATES (CONCRETE)			
Determining Sieve Analysis of Fine and Coarse Aggregates (Coarse Only)	ASTM C136	~~$200.00~~	$145.00
Sieve Analysis of Fine and Coarse Aggregates (Fine Only)	ASTM C136	~~$200.00~~	$145.00
Sieve Analysis of Fine and Coarse Aggregates (Wash Included)	ASTM C117	~~$250.00~~	$145.00
Sieve Analysis of Fine and Coarse Aggregates (200 Wash Only)	ASTM C117	~~$250.00~~	$145.00
Evaluating Cleanness of Coarse Aggregate		~~$250.00~~	$145.00
Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	ASTM C88	~~$275.00~~	$145.00
Unit Weight of Aggregate		~~$225.00~~	$145.00
Clay Lumps and Friable Particles in Aggregates	ASTM C142	~~$150.00~~	$145.00
Flat Particles, Elongated Particles or Flat and Elongated Particles in Coarse Aggregate	ASTM D4791	~~$250.00~~	$145.00
Organic Impurities in Fine Aggregates for Concrete	ASTM C40	~~$225.00~~	$145.00
Density, Relative Density(Specific Gravity), and Absorption of Coarse Aggregate	ASTM C127	~~$225.00~~	$145.00
Density, Relative Density(Specific Gravity), and Absorption of Fine Aggregate	ASTM C128	~~$225.00~~	$145.00
Resistance to Degradation of Small Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C131(535) and C211	~~$350.00~~	$145.00
Percentage of Crushed Particles/Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate	ASTM D5821	~~$250.00~~	$145.00
Uncompacted Void Content of Fine Aggregate (as Influenced by Particle Shape, Surface Texture, and Grading)	ASTM C1252/AASHTO T304A	~~$250.00~~	$145.00
Sand Equivalent Value of Soils and Fine Aggregate	ASTM D2419	~~$275.00~~	$145.00
Durability Index (Fine)	ASTM D3744	~~$275.00~~	$145.00
Durability Index (Coarse)	ASTM D3744	~~$275.00~~	$145.00
Durability Index (Fine and Coarse)	ASTM D 3744	~~$285.00~~	$145.00
Lightweight Particles in Aggregate	ASTM C123/AASHTO T113	QOR	QOR
Resistance of Rock to Wetting and Drying	CRD-C169	~~$400.00~~	$145.00

**Unusual sample preparation for brick specimen will be charged at the established hourly rate.*

ASPHALT		Standard Rate/Each	Discounted Rate/Each
Quantitative Extraction of Bitumen from Bituminous Paving Mixtures (Solvent)	ASTM D2172	~~$500.00~~	$225.00
Determining Low Temperature Performance Grade (PG) of Asphalt Binders	ASTM 6816	QOR	$225.00
Thickness/Height of Compacted Bituminous Paving Mixture Specimens (Cores)	ASTM D3549	~~$275.00~~	$225.00
Method of Prep of Bituminous Mixture Test Specimens	ASTM D6926	~~$275.00~~	$225.00
Bulk Specific Gravity and Density of Compacted Bituminous Mixtures (LTMD)	ASTM D1188 and D2726	~~$700.00~~	$225.00
Indirect Tensile (IDT) Strength of Bituminous Mixtures (TSR)	ASTM D6931	QOR	QOR
Mechanical Size Analysis (Coarse and Fine) of Extracted Aggregate	ASTM D5444	~~$275.00~~	$225.00
Marshall Stability and Flow of Bituminous Mixtures	ASTM D6927	~~$700.00~~	$225.00
Theoretical Maximum Specific Gravity and Density (Rice)	ASTM D2041	~~$475.00~~	$225.00
Measuring the Permeability of Bituminous Pavements and Seal Coats	CT341	QOR	QOR
Swell of Bituminous Mixtures	CT305	~~$250.00~~	$225.00
Moisture Vapor Susceptibility of Bituminous Mixtures/Moisture or Volatile Distillates in Asphalt	ASTM D1461	~~$650.00~~	$225.00
Stabilometer Value (1 sample)	CT366	~~$250.00~~	$225.00
Determination of Asphalt Content of Bituminous Paving Mixtures by the Ignition Method	ASTM D6307	~~$275.00~~	$225.00
Determination of Correction Factor of Bituminous Paving Mixtures by the Ignition Method	ASTM D6307	~~$275.00~~	$225.00
Determination of Asphalt and Moisture Contents of Bituminous Mixtures by Microwave Oven		~~$275.00~~	$225.00
Effect of Water on Compressive Strength of Compacted Bituminous Mixtures (Set of 6)	ASTM D1075	QOR	QOR
Compressive Strength of Bituminous Mixtures	ASTM D1074	~~$275.00~~	$225.00

** Unusual sample preparation (dried clays, saturated clays, etc.) and all other tests for treated or untreated soils, aggregate subbase and aggregate base will be charged at established rates for laboratory technician.*

*** Does not include sample preparation or sieve analysis*

All Fees Subject to Basis of Charges

LABORATORY METALS AND OTHER MATERIALS TESTS

		Standard Rate/Each	Discounted Rate/Each
MATERIALS MECHANICAL TESTS			
Mechanical Testing of Steel Products (General Tensile)	ASTM A370	~~$325.00~~	$165.00
Fillet Weld Break Test for Qualification (Welding)	AWS B4.0	~~$225.00~~	$165.00
Tension Testing of Metallic Materials, Tension Testing Wrought and Cast Aluminum and Magnesium-Alloy Products, (Welding Coupon Tensile)	ASTM E8, B557 and AWS B4.0	~~$325.00~~	$165.00
Mechanical Testing of Steel Products (Couplers)	ASTM A370	~~$325.00~~	$165.00
Impact Testing of Miniaturized Charpy V-Notch Specimens, Notched Bar Impact Testing of Metallic Materials	ASTM E2248 and ASTM E23	QOR	QOR
Testing, Practices, and Terminology for Chemical Analysis of Steel Products	ASTM A751	~~$300.00~~	$165.00
Mechanical Testing of Steel Products & Bend Testing of Material for Ductility; #3-#8	ASTM A370 and E290	~~$250.00~~	$60.00
Mechanical Testing of Steel Products & Bend Testing of Material for Ductility; #9-#11	ASTM A370 and E290	~~$300.00~~	$80.00
Mechanical Testing of Steel Products & Bend Testing of Material for Ductility; #14+	ASTM A370 and E290	QOR	QOR
Mechanical Testing of Steel Products, Standard Specification for Steel Wire, Plain, for Concrete Reinforcement	ASTM A370, A82 and A185	~~$300.00~~	$165.00
Guided Bend Test for Ductility of Welds, Mechanical Testing of Welds	ASTM E190 and AWS B4.0	~~$275.00~~	$165.00
Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Anchor Bolts Only (Tension and Yield)	ASTM F307, F1554 and F606	~~$350.00~~	$250.00
Rockwell Hardness of Metallic Materials	ASTM E18	~~$200.00~~	$165.00
Proof Test for Carbon and Alloy Steel (Nuts Only)	ASTM A194 or A563	~~$225.00~~	$165.00
Radiographic Examination of Metallic Castings/Weldments	ASTM E94, E1030 and E1032	QOR	QOR
Macroetching Metals and Alloys	ASTM E340, E381 and AWS	~~$225.00~~	$165.00
Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets (HSB Assemblies)	ASTM F606	~~$250.00~~	$165.00
Mechanical Testing of Steel Products (Terminators Tensile)	ASTM A370	~~$250.00~~	$165.00
Strength for Sewn or Bonded Seams of Geotextiles	ASTM D4884	~~$225.00~~	$165.00
Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure	ASTM D2261	~~$225.00~~	$165.00
Breaking Strength and Elongation of Textile Fabrics (Grab Test)	ASTM D5034	~~$275.00~~	$165.00
Tensile Properties of Fiber Reinforced Polymer Matrix Composite Bars	ASTM D3039	~~$675.00~~	$165.00
Steel Strand, Uncoated Seven-Wire for Prestressed Concrete	ASTM A416 and A1061	QOR	QOR
FIREPROOFING			
Thickness and Density of Sprayed Fire-Resistive Material (SFRM)	ASTM E605	~~$150.00~~	$85.00
Cohesion/Adhesion of Sprayed Fire-Resistive Materials (Test Kit Only)	ASTM E736	~~$50.00~~	$35.00

All Fees Subject to Basis of Charges

FENAGH
ENGINEERING AND TESTING

INSPECTING
TESTING
ENGINEERING

ALTADENA LIBRARY DISTRICT (ALD)
FET 2024 - 2026 SCHEDULE OF FEES
INSPECTIONS, ENGINEERING & SPECIAL SERVICES

	* FIELD INSPECTION SERVICES	Local Code	National Standard	Standard Rate/Hour	Discounted Rate/Hour
	Steel Visual Welding			~~$161.00~~	$107.00
	Steel Visual Bolting			~~$161.00~~	$107.00
	Nondestructive - UT, MT, PT			~~$161.00~~	$120.00
	Concrete ACI Sampling			~~$161.00~~	$105.00
	Batch Plant Inspection			~~$161.00~~	$75.00
	Concrete ICC/ACI-II (Rebar/Placement)			~~$161.00~~	$105.00
	Concrete PT			~~$161.00~~	$105.00
	Masonry			~~$161.00~~	$105.00
	Fireproofing (Thickness/Density)			~~$161.00~~	$107.00
	Firestopping/Fire-safing			~~$161.00~~	$120.00
	Soil Technician w/Nuclear Gauge and/or Sand Cone (Portal - Portal))			~~$161.00~~	$110.00
	Asphalt Technician w/Nuclear Gauge (Portal - Portal)			~~$161.00~~	$110.00
	Roofing & Weatherproofing/Waterproofing			~~$161.00~~	$107.00
	Structural Wood Framing			~~$161.00~~	$107.00
	Shotcrete			~~$161.00~~	$107.00
	Fiber Reinforced Concrete (FRP)			~~$161.00~~	$110.00
	Lead/Multi-Disciplined Inspector			~~$161.00~~	$110.00
	Specialty Inspector where certification not above is required			~~$161.00~~	$110.00
	Certified Cal OSHA Tower Inspector			~~$161.00~~	$125.00
	Quality Control Manager			~~$161.00~~	$125.00
	ASNT Level III			~~$161.00~~	$125.00
	Laboratory Technician/Sample Runner			~~$161.00~~	$105.00
	Project Coordinator			~~$161.00~~	$100.00
	Technician Typist			~~$161.00~~	$100.00
	****PROFESSIONAL ENGINEERING SERVICES**				
	Principal Engineer (Geotechnical/Civil/Structural)			~~$300.00~~	$225.00
	Consulting Engineer (Civil/Structural)			~~$350.00~~	$175.00
	Associate Engineer, Licensed			~~$225.00~~	$165.00
	Staff Geotechnical Engineer			~~$245.00~~	$165.00
	Junior Staff Engineer			~~$225.00~~	$130.00
	Project Manager			~~$165.00~~	$100.00
	Field Supervision			~~$165.00~~	$95.00
	ASNT Level III			~~$185.00~~	$140.00
	Drafting			~~$125.00~~	$75.00
	SPECIAL SERVICES				
	Portable and Mobile Laboratories, Concrete and Soils			QOR	
***	Off-Site Structural Steel or Precast Fabrication or Rebar Fabrication			~~$198.00~~	$75.00
*	Epoxy Bolt Proof Load/Pull Testing			~~$161.00~~	$125.00
*	Expansion Anchor Proof Load/Torque Testing			~~$161.00~~	$102.00
*	Coring, 1 Person (including equipment)			~~$348.00~~	$190.00
*	Coring, 2 Persons (including equipment)			~~$455.00~~	$310.00
	Engineering Project Research			QOR	
	Skidmore-Wilhelm Equipment Fee Per Hour			~~$80.00~~	NC
	Geotechnical Site Investigations/Foundation Reports			QOR	
	Rebound Hammer, Schmidt Hammer, Windsor Probe - Equipment Fee Per Hour			~~$275.00~~	NC
	Floor Flatness Testing FF/FL - (Equipment Fee $100/Hour)			~~$316.00~~	$190.00
	Floor Flatness Testing FF/FL - Report Fee			~~$535.00~~	$120.00
	Measuring Moisture Vapor Emission Rate (Calcium Chloride) - $100/Kit		ASTM F1869	~~$123.00~~	$102.00
	Relative Humidity Testing - ($100/kit)		ASTM F2170	~~$123.00~~	$102.00
	GPR (Ground Penetrating Radar) - Equipment Fee $175/Hour			~~$375.00~~	$190.00
	Concrete Crack Gauge Monitoring			~~$375.00~~	$215.00
	Building Evelope - Air Leakage Rate by Fan Pressure		ASTM E779	~~$803.00~~	$450.00
	Water Penetration of Windows, Skylights, Doors and Curtain Walls by Uniform or Cyclic Pressure		ASTM E1105	~~$4,050.00~~	$3,000.00
	Air and Water Infiltration Leakage Testing		AMMA 501.2	~~$4,050.00~~	$3,000.00
	Electronic Leak Detection of Roof (Vector Mapping)			~~$450.00~~	$190.00
	Air Content Test Equipment			~~$107.00~~	NC
	Slump & Temperature Equipment			~~$107.00~~	NC
	Fireproof Density and Adhesion/Cohesion Inspection Kit			~~$107.00~~	NC
	Dynamic Cone Penetrometer (DCP)			QOR	
	Gamma Gamma/ Cross Hole Sonic Logging (CSL) Testing			~~$4,306.00~~	$3,000.00
	Administration, Accounting, Special Projects, Notary, Certified Payroll			~~$134.00~~	$75.00
	Concrete/Grout/Mortar Mix Design Review (less than 48 hours notice - $500)			~~$375.00~~	$275.00
	Welding Procedure Review (less than 48 hours notice - $500)			~~$375.00~~	$275.00
	Welder Qualification Test Record		AWS	$1,070.00	

* Field inspection services will be billed in accordance with minimums shown on Basis of Charges.
**Professional engineering services and laboratory technician services will be billed at actual time.
*** All plant inspections are located within 50 miles of the project location. Steel shops will be AISC certified and concrete plants will be PIC certified.
**** Two inspections performed by the same inspector during a site visit will be billed at the combination rate.
***** Three or more inspections performed by the same inspector during a site visit will be billed at the multi-disciplined rate.

BASIS OF CHARGES

GENERAL

Fees for tests and inspection include cost of technician, normal equipment and regular reports. Engineering services other than supervisory will be charged at applicable rates. Fees for special projects, services overseas, or elsewhere in the United States, will be quoted on request. With prior notification to Client; charges are subject to change at any time. Fenagh reserves the right to adjust the rates quoted in this contract based upon any prevailing wage increases and/or changes in any industry requirements.

MINIMUM HOURLY CHARGES – INSPECTION

Technician personnel and the following minimum charges are contractual commitment:

One-half day or less	4 Hours
Over one-half day	8 Hours
Show-up time (less than 2 hours notice = 4 hour charge)	2 Hours

WORKING HOURS AND PREMIUM TIME

Regular workday is the first 8 hours between 6:00 am and 6:00 pm Monday through Friday. Premium time is as follows:

Overtime, Weekdays and Saturdays (first 8 hours)	1.5 x quoted hourly rate
Overtime Saturdays (over 8 hours) and Sundays (first 8 hours)	2 x quoted hourly rate
Overtime Sundays (over 8 hours) and Holidays	3 x quoted hourly rate
Shift differential, swing and graveyard - (Work performed between 2:00 pm and 4:00 am)	1.5 x quoted hourly rate

MISCELLANEOUS CHARGES - *Only Where Applicable*

Notary Services Fee	$25.00/each
Facsimile Charges. Plus $1.00/page (n/c for cover page)	$5.00 minimum
Wireless Router/Data Card for Jobsite Internet	$100.00/day
Parking Fees	At Cost
Air Travel	Cost Plus 5%
Outside Services	Cost Plus 20%
Per Diem	$125.00/day
Mileage (Out of Town Assignments)	Standard Federal Rate
Sample Pickup	$15.00/each
Weekend Sample Pickup	$75.00/hour
Project Administration	8% of Monthly Invoice
Samples Made by Others: Concrete Cylinders	N/A
Laboratory Sample Witness Fee	$100.00
EZ Cure Boxes (Thermostatically Controlled Curing Boxes)	QOR
Returned Check Fee	$100.00
Expedited Dispatch Request (inspections scheduled less than 12 hours notice)	1.5 X quoted hourly rate

TESTS

Testing fees shown include normal time for performing test. Samples requiring special preparation will be charged at the laboratory technician rate. Fees for tests not listed will be quoted upon request. There will be a minimum charge of $100.00 for any engineering report. Please note some tests maybe tested by sub consultants. Samples delivered to the laboratory after 3:00pm or samples needing results within 24 hours will incur a 50% mark-up.

LIMIT OF LIABILITY

The total liability of Fenagh, LLC is limited to the contract dollar value.

INSURANCE

For the waiver of subrogation if required by client, a 2% Fenagh administrative fee will be added to all gross billings/revenue.

PAYMENT

Invoices will be submitted monthly or bimonthly for services performed during the preceding month and are payable on receipt. Interest of 1.5% per month (but not exceeding the maximum rate allowable by law) will be payable on any amounts not paid within 30 days, payment thereafter to be applied first to accrued interest and then to the principle unpaid amount. Attorney's fees or other costs incurred in collecting any delinquent amount shall be paid by client. Visa, MasterCard and American Express payments are accepted however fees will apply. Visa and MasterCard payments require an additional 3% on top of the amount of the invoice being paid. American Express payments require an additional 4% on top of the amount of the invoice being paid.

FENAGH
ENGINEERING AND TESTING

INSPECTING
TESTING
ENGINEERING

CONCRETE AND MASONRY TESTS

		Standard Rate/Each	Discounted Rate/Each
CONCRETE			
Compressive Strength of Cylindrical Concrete Specimens (6x12)	ASTM C39	~~$65.00~~	$35.00
Compressive Strength of Cylindrical Concrete Specimens (4x8)	ASTM C39	~~$55.00~~	$24.00
Compressive Strength of Cylindrical Concrete Specimens (over 8000 psi)	ASTM C39	~~$95.00~~	$65.00
Compressive Strength of Cylindrical Concrete Specimens (over 10000 psi)	ASTM C39	~~$95.00~~	$65.00
Compressive Strength of Lightweight Insulating Concrete	ASTM C495	~~$95.00~~	$65.00
Obtaining and Testing Sawed Beams and Drilled Cores of Concrete (cores)	ASTM C42	~~$250.00~~	$65.00
Flexural Toughness of Fiber Reinforced Concrete (Round Panel)	ASTM C1550	~~$300.00~~	$65.00
Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	ASTM C78	~~$210.00~~	$65.00
Length Change of Hardened Hydraulic-Cement Mortar and Concrete (Shrinkage 1 Sample)	ASTM C157	~~$200.00~~	$65.00
Shotcrete Nozzleman Qualification	ACI 506, ASTM C42 and C1140	~~$300.00~~	$140.00
Shotcrete Pre-Qualification Cores	ACI 506, ASTM C42 and C1140	~~$95.00~~	$65.00
Shotcrete Production Cores	ASTM C1140	~~$95.00~~	$65.00
Coefficient of Thermal Expansion	AASHTO T336	~~$360.00~~	$140.00
Determining Density of Structural Lightweight Concrete (Cylinders)	ASTM C567	~~$275.00~~	$140.00
Standard Specification for Concrete Made by Volumetric Batching and Mixing	ASTM C685	~~$675.00~~	$140.00
Cement Quality Sampling		~~$485.00~~	$140.00
Physical Testing of Gypsum, Gypsum Plasters and Gypsum Concrete	ASTM C472	~~$235.00~~	$140.00
Splitting Tensile Strength of Cylindrical Concrete Specimens	ASTM C496	~~$275.00~~	$140.00
Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression	ASTM C469	~~$260.00~~	$140.00
Grab Sample, Sealing and Storing in a Humidity and Temperature Controlled Room		~~$200.00~~	$140.00
Density of Hydraulic Cement	ASTM C188	~~$230.00~~	$140.00
Testing of Controlled Low Strength Material (CLSM) Test Cylinders	ASTM D4832	~~$200.00~~	$140.00
GFRC Pull Test	PCI	~~$260.00~~	$140.00
GFRC Flexural Test	PCI	~~$260.00~~	$140.00
Foaming Agents for Use in Producing Cellular Concrete Using Preformed Foam (Cell-Crete)	ASTM C796	~~$260.00~~	$140.00
MASONRY			
Compressive Testing of Grout (Masonry)	ASTM C1019	~~$85.00~~	$24.00
Compressive Strength of Hydraulic Cement Mortars Using 2" Cube Specimens	ASTM C109	~~$85.00~~	$26.00
Compressive Strength of Masonry Prisms	ASTM C1314	~~$175.00~~	$125.00
Testing Concrete Masonry Units and Related Units (Core Compression)	CBC 2105A.4	~~$175.00~~	$125.00
Compressive Strength of Molded Masonry Mortar Cylinders and Cubes (2" Sample)	ASTM C780 A7.6	~~$85.00~~	$26.00
Testing Concrete Masonry Units (CMU) and Related Units (Full Unit)	ASTM C140	~~$175.00~~	$125.00
Linear Drying Shrinkage of Concrete Masonry Units (Per Unit)	ASTM C426	~~$175.00~~	$125.00
Masonry Core Shear Testing		~~$175.00~~	$125.00
Testing Concrete Masonry Units (Absorption, Moisture Content, Unit Weight)	ASTM C140	~~$225.00~~	$125.00
Brick and Clay Tile (modulus of rupture, compression, saturation coefficient, suction rate, efflorescence)*	ASTM C67	~~$700.00~~	$125.00

FENAGH
ENGINEERING AND TESTING

INSPECTING
TESTING
ENGINEERING

SOILS, AGGREGATE, ASPHALTIC CONCRETE SERVICES & TESTS

SOILS		Standard Rate/Each	Discounted Rate/Each
Direct Shear Test of Soils Under Consolidated Drained Conditions	ASTM D3080	~~$375.00~~	$175.00
Caltrans Corrosivity Package		~~$350.00~~	$175.00
Determining Field and Laboratory Resistivity and pH Measurements for Soil and Water	CT643	~~$225.00~~	$175.00
Soils and Waters for Sulfate Content	CT417	~~$225.00~~	$175.00
Soils and Waters for Chloride Content	CT422	~~$225.00~~	$175.00
Swell Test Under 60psf Surcharge (per SNV Amendments to IBC)	ASTM D2435 (Modified)	~~$250.00~~	$175.00
Particle-Size Analysis of Soils (with Hydrometer)	ASTM D422	~~$400.00~~	$175.00
Pore Water Extraction and Determination of the Soluble Salt Content of Soils by Refractometer	ASTM D4542	~~$425.00~~	$175.00
Standard Test Method for Particle-Size Analysis of Soils (without Hydrometer)	ASTM D422	~~$350.00~~	$175.00
Liquid Limit, Plastic Limit, and Plasticity Index of Soils	ASTM D4318	~~$325.00~~	$175.00
Laboratory Compaction Characteristics of Soil Using Modified/Standard Effort	ASTM D1557/D698	~~$325.00~~	$175.00
Field Density Test for Compaction		~~$200.00~~	$175.00
Hydrometer Only	ASTM D422	~~$350.00~~	$175.00
pH of Soils	ASTM D4972	~~$300.00~~	$175.00
Relative Compaction of Untreated and Treated Soils and Aggregates	CT216	~~$400.00~~	$175.00
Determining the Resistance "R" Value of Treated and Untreated Bases, Subbases, and Basement Soils by the Stabilometer	ASTM D2844	~~$400.00~~	$175.00
Laboratory Determination of Water(*moisture) Content of Soil and Rock by Mass	ASTM D2216	~~$100.00~~	$175.00
Density of Soil in Place by the Drive-Cylinder Method	ASTM D2937	~~$275.00~~	$175.00
Expansion Index of Soils	ASTM D4829	~~$275.00~~	$175.00
Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter (Permeability)	ASTM D5084	~~$375.00~~	$175.00
Lab Compaction Characteristics of Soil 1 Point Proctor (Check Point)	ASTM D698/D1557	~~$225.00~~	$175.00
Maximum Index Density and Unit Weight of Soils Using a Vibratory Table	ASTM D4253	~~$290.00~~	$175.00
Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density	ASTM D4254	~~$290.00~~	$175.00
Density of Hydraulic Cement	ASTM C188	~~$275.00~~	$175.00
Volatile Organic Content	EPA 8260B	QOR	QOR
Semi Volatile Organics by GC/Ms (Basic Target List)	EPA 8270C	QOR	QOR
Total Organic Carbon	ASTM 2974/EPA 5310Bm	QOR	QOR
ICP Metals Concentration	EPA 6020 - CAM/CCR 17	QOR	QOR
Total Extractable Petroleum Hydrocarbons: TPH, MTBE, Benzene,Toluene, Ethylbenzene, Zylenes, %SS	EPA 8015B	QOR	QOR
ICP Metals Concentration	EPA 6020	QOR	QOR
pH	EPA 9045D	~~$350.00~~	$175.00
Sequential Batch Extraction of Waste with Acidic Extraction Fluid	ASTM D5284	QOR	QOR
Chromium Soluble	EPA 7196A	QOR	QOR
Moisture, Ash and Organic Matter of Peat and Other Organic Soils (Organic Content)	ASTM D2974	~~$275.00~~	$175.00
Universal Soil Classification System (USCS) Test	ASTM D2487	~~$200.00~~	$175.00
California Bearing Ratio Test	ASTM D1883	~~$250.00~~	$175.00
Unconfined Compressive Strength of Cohesive Soil	ASTM D2166	~~$125.00~~	$175.00
AGGREGATES (CONCRETE)			
Determining Sieve Analysis of Fine and Coarse Aggregates (Coarse Only)	ASTM C136	~~$200.00~~	$145.00
Sieve Analysis of Fine and Coarse Aggregates (Fine Only)	ASTM C136	~~$200.00~~	$145.00
Sieve Analysis of Fine and Coarse Aggregates (Wash Included)	ASTM C117	~~$250.00~~	$145.00
Sieve Analysis of Fine and Coarse Aggregates (200 Wash Only)	ASTM C117	~~$250.00~~	$145.00
Evaluating Cleanness of Coarse Aggregate		~~$250.00~~	$145.00
Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	ASTM C88	~~$275.00~~	$145.00
Unit Weight of Aggregate		~~$225.00~~	$145.00
Clay Lumps and Friable Particles in Aggregates	ASTM C142	~~$150.00~~	$145.00
Flat Particles, Elongated Particles or Flat and Elongated Particles in Coarse Aggregate	ASTM D4791	~~$250.00~~	$145.00
Organic Impurities in Fine Aggregates for Concrete	ASTM C40	~~$225.00~~	$145.00
Density, Relative Density(Specific Gravity), and Absorption of Coarse Aggregate	ASTM C127	~~$225.00~~	$145.00
Density, Relative Density(Specific Gravity), and Absorption of Fine Aggregate	ASTM C128	~~$225.00~~	$145.00
Resistance to Degradation of Small Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C131(535) and C211	~~$350.00~~	$145.00
Percentage of Crushed Particles/Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate	ASTM D5821	~~$250.00~~	$145.00
Uncompacted Void Content of Fine Aggregate (as Influenced by Particle Shape, Surface Texture, and Grading)	ASTM C1252/AASHTO T304A	~~$250.00~~	$145.00
Sand Equivalent Value of Soils and Fine Aggregate	ASTM D2419	~~$275.00~~	$145.00
Durability Index (Fine)	ASTM D3744	~~$275.00~~	$145.00
Durability Index (Coarse)	ASTM D3744	~~$275.00~~	$145.00
Durability Index (Fine and Coarse)	ASTM D 3744	~~$285.00~~	$145.00
Lightweight Particles in Aggregate	ASTM C123/AASHTO T113	QOR	QOR
Resistance of Rock to Wetting and Drying	CRD-C169	~~$400.00~~	$145.00

**Unusual sample preparation for brick specimen will be charged at the established hourly rate.*

ASPHALT		Standard Rate/Each	Discounted Rate/Each
Quantitative Extraction of Bitumen from Bituminous Paving Mixtures (Solvent)	ASTM D2172	~~$500.00~~	$225.00
Determining Low Temperature Performance Grade (PG) of Asphalt Binders	ASTM 6816	QOR	$225.00
Thickness/Height of Compacted Bituminous Paving Mixture Specimens (Cores)	ASTM D3549	~~$275.00~~	$225.00
Method of Prep of Bituminous Mixture Test Specimens	ASTM D6926	~~$275.00~~	$225.00
Bulk Specific Gravity and Density of Compacted Bituminous Mixtures (LTMD)	ASTM D1188 and D2726	~~$700.00~~	$225.00
Indirect Tensile (IDT) Strength of Bituminous Mixtures (TSR)	ASTM D6931	QOR	QOR
Mechanical Size Analysis (Coarse and Fine) of Extracted Aggregate	ASTM D5444	~~$275.00~~	$225.00
Marshall Stability and Flow of Bituminous Mixtures	ASTM D6927	~~$700.00~~	$225.00
Theoretical Maximum Specific Gravity and Density (Rice)	ASTM D2041	~~$475.00~~	$225.00
Measuring the Permeability of Bituminous Pavements and Seal Coats	CT341	QOR	QOR
Swell of Bituminous Mixtures	CT305	~~$250.00~~	$225.00
Moisture Vapor Susceptibility of Bituminous Mixtures/Moisture or Volatile Distillates in Asphalt	ASTM D1461	~~$650.00~~	$225.00
Stabilometer Value (1 sample)	CT366	~~$250.00~~	$225.00
Determination of Asphalt Content of Bituminous Paving Mixtures by the Ignition Method	ASTM D6307	~~$275.00~~	$225.00
Determination of Correction Factor of Bituminous Paving Mixtures by the Ignition Method	ASTM D6307	~~$275.00~~	$225.00
Determination of Asphalt and Moisture Contents of Bituminous Mixtures by Microwave Oven		~~$275.00~~	$225.00
Effect of Water on Compressive Strength of Compacted Bituminous Mixtures (Set of 6)	ASTM D1075	QOR	QOR
Compressive Strength of Bituminous Mixtures	ASTM D1074	~~$275.00~~	$225.00

** Unusual sample preparation (dried clays, saturated clays, etc.) and all other tests for treated or untreated soils, aggregate subbase and aggregate base will be charged at established rates for laboratory technician.*

*** Does not include sample preparation or sieve analysis*

LABORATORY METALS AND OTHER MATERIALS TESTS

		Standard Rate/Each	Discounted Rate/Each
MATERIALS MECHANICAL TESTS			
Mechanical Testing of Steel Products (General Tensile)	ASTM A370	~~$325.00~~	$165.00
Fillet Weld Break Test for Qualification (Welding)	AWS B4.0	~~$225.00~~	$165.00
Tension Testing of Metallic Materials, Tension Testing Wrought and Cast Aluminum and Magnesium-Alloy Products, (Welding Coupon Tensile)	ASTM E8, B557 and AWS B4.0	~~$325.00~~	$165.00
Mechanical Testing of Steel Products (Couplers)	ASTM A370	~~$325.00~~	$165.00
Impact Testing of Miniaturized Charpy V-Notch Specimens, Notched Bar Impact Testing of Metallic Materials	ASTM E2248 and ASTM E23	QOR	QOR
Testing, Practices, and Terminology for Chemical Analysis of Steel Products	ASTM A751	~~$300.00~~	$165.00
Mechanical Testing of Steel Products & Bend Testing of Material for Ductility; #3-#8	ASTM A370 and E290	~~$250.00~~	$60.00
Mechanical Testing of Steel Products & Bend Testing of Material for Ductility; #9-#11	ASTM A370 and E290	~~$300.00~~	$80.00
Mechanical Testing of Steel Products & Bend Testing of Material for Ductility; #14+	ASTM A370 and E290	QOR	QOR
Mechanical Testing of Steel Products, Standard Specification for Steel Wire, Plain, for Concrete Reinforcement	ASTM A370, A82 and A185	~~$300.00~~	$165.00
Guided Bend Test for Ductility of Welds, Mechanical Testing of Welds	ASTM E190 and AWS B4.0	~~$275.00~~	$165.00
Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Anchor Bolts Only (Tension and Yield)	ASTM F307, F1554 and F606	~~$350.00~~	$250.00
Rockwell Hardness of Metallic Materials	ASTM E18	~~$200.00~~	$165.00
Proof Test for Carbon and Alloy Steel (Nuts Only)	ASTM A194 or A563	~~$225.00~~	$165.00
Radiographic Examination of Metallic Castings/Weldments	ASTM E94, E1030 and E1032	QOR	QOR
Macroetching Metals and Alloys	ASTM E340, E381 and AWS	~~$225.00~~	$165.00
Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets (HSB Assemblies)	ASTM F606	~~$250.00~~	$165.00
Mechanical Testing of Steel Products (Terminators Tensile)	ASTM A370	~~$250.00~~	$165.00
Strength for Sewn or Bonded Seams of Geotextiles	ASTM D4884	~~$225.00~~	$165.00
Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure	ASTM D2261	~~$225.00~~	$165.00
Breaking Strength and Elongation of Textile Fabrics (Grab Test)	ASTM D5034	~~$275.00~~	$165.00
Tensile Properties of Fiber Reinforced Polymer Matrix Composite Bars	ASTM D3039	~~$675.00~~	$165.00
Steel Strand, Uncoated Seven-Wire for Prestressed Concrete	ASTM A416 and A1061	QOR	QOR
FIREPROOFING			
Thickness and Density of Sprayed Fire-Resistive Material (SFRM)	ASTM E605	~~$150.00~~	$85.00
Cohesion/Adhesion of Sprayed Fire-Resistive Materials (Test Kit Only)	ASTM E736	~~$50.00~~	$35.00

Altadena Libraries

REQUEST FOR PROPOSALS
FOR
CONSTRUCTION INSPECTION AND/OR SOILS ENGINEERING SERVICES ON-CALL SERVICES

KOURY

SUBMITTED BY:

Koury Engineering & Testing, Inc.

POINT OF CONTACT:
Anthony Fielding
Project Manager
C| 951.636.0920
O| 909.606.6111 x707
E| AnthonyF@KouryEngineering.com

KOURY
PASSION INTEGRITY QUALITY

Jennifer Pearson
Altadena Library District
600 E Mariposa St
Altadena, CA 91001

February 23, 2024

SUBJECT: **Response to Request for Proposals for Construction Inspection And Soils Engineering Services On-Call Services (Koury Proposal No. 24-2222)**

Dear Mrs. Pearson:

Koury Engineering & Testing, Inc. (Koury) appreciates the opportunity to present this proposal to the Altadena Library District ("District") for RFP Construction Inspection and/or Soils Engineering Services On-Call Services. We can provide both construction inspection and soils engineering services. We intend to provide the services related to the planned renovations and additions to the Bob Lucas Memorial Branch Library & Literacy Center (Branch) and/or the Altadena Main Library.

Legal Name: Koury Engineering & Testing, Inc.
Address: 5711 Schaefer Ave., Chino, CA 91710
Phone: 909.606.6111 Fax: 909.606.6555
City of Chino Business License No.: 23670
Point of Contact: Anthony Fielding | Project Manager

CLOSING

After review of the scope of services listed in the RFP, we are confident we have the qualified personnel and resources necessary to accomplish the required services, and that you will be pleased with our professional approach, project experience, quality control procedures, and desire to provide cost effective service.

Koury intends to perform the full scope of services listed and confirm that all elements of the RFP have been reviewed and understood. We are willing to enter into a contract under the terms and conditions prescribed by the Altadena Library District Professional Services Agreement. We do not have any exceptions to the RFP. We acknowledge receipt of Addenda Nos. 1 Dated February 5th, 2024 and Addenda Nos. 2 Dated February 16th, 2024.

Anthony Fielding, Project Manager, will be the City's primary point of contact throughout the life of the agreement. He may be reached by phone at (951) 636-0920 or via email at AnthonyF@KouryEngineering.com. Michele Shams, CEO/ President is authorized to negotiate and execute an agreement with the District on behalf of Koury.

Best Regards,
KOURY ENGINEERING & TESTING, INC.

Anthony Fielding

Anthony Fielding, Project Manager

Michele Shams, CEO/President

Maqael Knight

Maqael Knight, Business Development Manager
DIR#1000007497

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KOURY
PASSION INTEGRITY QUALITY

SECTION I – EXPERIENCE

KOURY'S EXPERIENCE

Koury has provided quality assurance and quality control services since 1992. We are a Woman Owned Business focused on geotechnical engineering, construction inspection, and materials testing, serving clients throughout Southern California. Koury maintains clients and contracts in private development, schools, hospitals, municipalities and transportation projects. Having diversified experience and capability of services creates a stable foundation for the company and its long term growth.

We have direct experience working with the LA County Department of Public Works, Library Renovations, and new construction both within LA County and in different areas in Southern California. A few examples include LADPW | Child & Family Wellbeing Center, City of Beverly Hills | Library Admin Staff Office Remodel, SMMUSD | JAMS Library Renovation, and Greenway Meadows - Senior Housing which included a ground-floor community room, a laundry facility, a library, and one level of underground parking. Our past experience and familiarity with our geotechnical team enables us to adapt to each project and effectively communicate each project's District Representative, Construction Management team, or Architects, to ensure a successful project.

ROLE OF REQUESTED SERVICES

Our team provides a full range of geotechnical and engineering geology, material testing and special inspection services for all phases of projects. Our staff consists of highly experienced engineers and geologists who have worked worldwide on a variety of geotechnical and environmental projects and soil technicians and inspectors that have multiple certifications and decades of experience.

Koury operates a laboratory located in Chino with satellite offices located in San Bernardino and Ontario. Our state-of-the-art laboratory will be able to provide your company with all the relevant testing required. In the event any specific or uncommon test arises, we will have the proper specialty firms in mind to facilitate the needs of the City. Our experience has allowed us to develop a systemized approach to providing laboratory services. All laboratory tests will be performed in accordance with ASTM, AASHTO, and project specifications.

In addition to the services mentioned above, we also offer the following in-house; Fireproofing, Water Proofing, Roofing, and Non-Destructive Testing (Shop & Field). We have two Ground Penetrating Radar Units to provide Utilities and Concrete Scanning with 3D Imaging.

CLAIMS HISTORY

Koury does not have any disciplinary actions, administrative proceedings, malpractice claims or other like proceedings against the Proposer or any of its personnel relating to our firm's services as legal services, whether current, pending, or occurring in the last five (5) years.

Koury Engineering & Testing, Inc.

Address:
5711 Schaefer Ave., Chino, CA 91710

Phone Number: (909) 606-6111

Year Incorporated: 1992 (32 years)

Federal Tax ID: 95-47994329

Authorized Representatives:

Michele Shams, CEO/President
Dave Menefee, COO/Vice President

REFERENCES

Project & Location:	Child & Family Wellbeing Center (Los Angeles, CA)
Project Dates:	January 2023 - August 2023
Project Description:	The project at the MLK Campus in LA, the Child and Family Wellbeing Center (also known as the Jacqueline Avant Children and Family Center). It's a project which is broken into two parts: Phase 1 (the building) and Phase 2 (the parking lot)
Description of Service:	Our services included deputy geotechnical inspections/testing and concrete inspections. We provided a final compliance report for the geotechnical services.
Client Name:	LADPW | Los Angeles County Dept. of Public Works
Contact Name & Title:	Rukhsana Reyes, Capital Projects Manager
Client Address:	900 South Fremont Ave, Alhambra, CA 91803
Phone:	(626) 632-8041

Project & Location:	Asphalt Coring and Pavement Design Recommendations (San Bernardino, CA)
Project Dates:	Aug 2021 - Sept 2021
Project Description:	This project included determining the thickness of the existing asphalt pavement, the condition, thickness, and type of any underlying base materials for fifteen different areas throughout the city.
Description of Service:	Our scope included coring, obtaining soil samples for 'R' Value testing, and some traffic control. We provided pavement design recommendations.
Client Name:	City of San Bernardino
Contact Name & Title:	Donna Puentes, Public Works Inspector
Client Address:	300 North D Street, San Bernardino, CA 92418
Phone:	(909) 384-5111

Project & Location:	Troth Street Elementary School Modernization (Mira Loma, CA)
Project Dates:	May 2023 - Active
Project Description:	This project consists of four one-story buildings including an administration building, multi-purpose building, library, and classroom building. Modernization of Classroom buildings (Bldgs D, E, G, H, I, And J) and parking lot. The project also include a playground scope.
Description of Service:	Koury provided material testing & special inspection services. These services included, but are not limited to, soils compaction, steel fabrication shop, rebar tag & sample, concrete batch plant, floor flatness, welding, and masonry.
Client Name:	JUSD | Jurupa Unified School District
Contact Name & Title:	Marshal Stevens, Project Manager
Client Address:	4850 Pedley Road, Jurupa Valley, CA 92509
Phone:	(951) 563-7905

REFERENCES *(cont.)*

Project & Location:	Greenway Meadows - Senior Housing (Santa Monica, CA)
Project Dates:	May 2019 - Dec 2020
Project Description:	The proposed three-story edifice, slated for a 15,000-square-foot site at 1820 14th Street, would replace a series of smaller commercial buildings with 39 apartments reserved for low-income seniors. Plans also call for a ground-floor community room, a laundry facility, a library, and one level of underground parking for 10 vehicles.
Description of Service:	Our scope included inspections on the following: Concrete, piles, shotcrete, wood, structural steel, pull testing, concrete, masonry, epoxy anchoring, and fireproofing.
Client Name:	Community Corporation of Santa Monica
Contact Name & Title:	Carla Vasquez Noriega, Project Manager
Client Address:	1423 Second Street, Suite B, Santa Monica, CA 90401
Phone:	(310) 394-8487

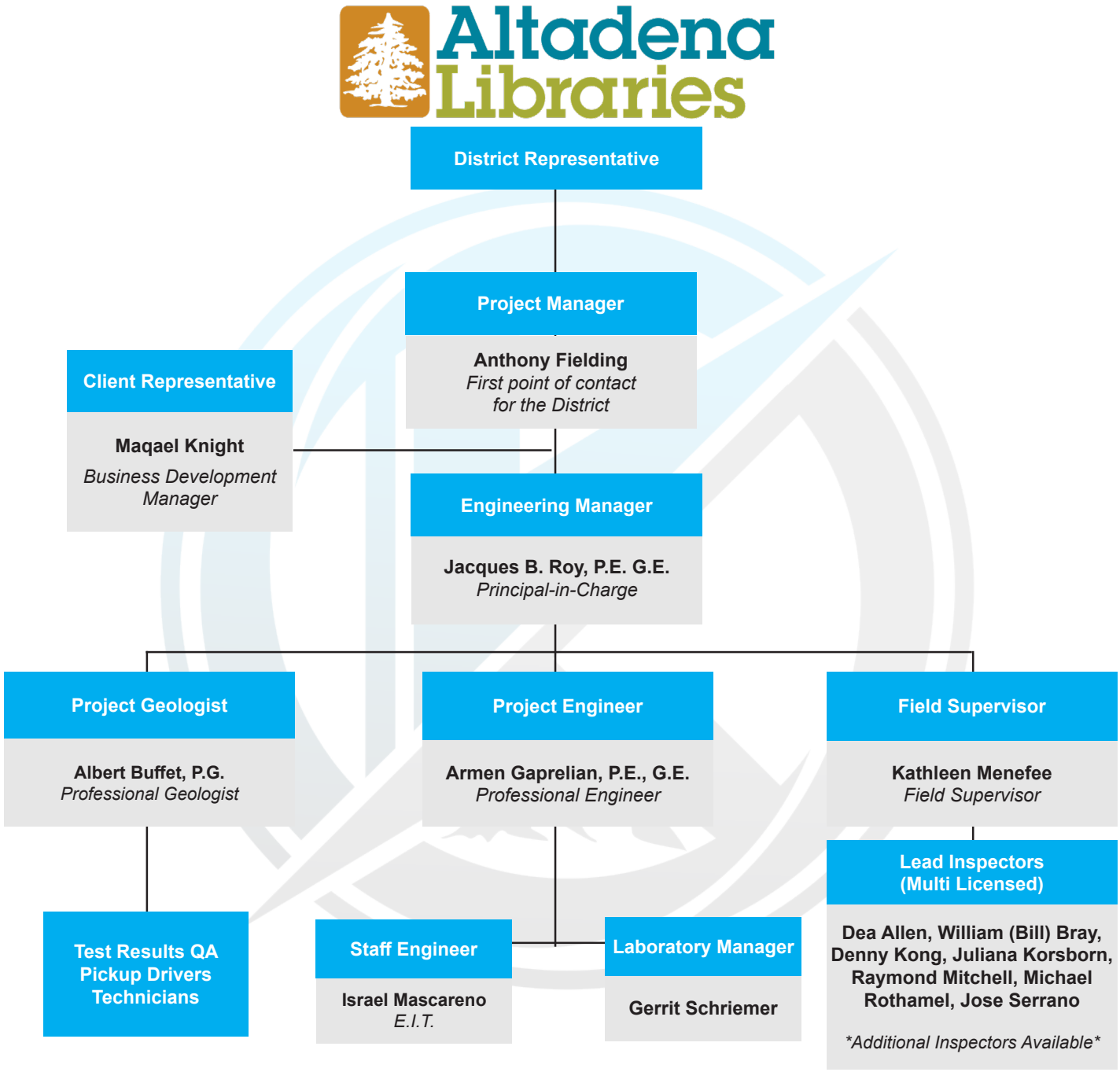
Project & Location:	Reseda CHS Comp Mod Pkg. H - MPR, Library, and South Site (Reseda, CA)
Project Dates:	May 2023 - Active
Project Description:	Construction of 1-Multi-purpose Building (5), 1-Canopy (Translucent), 1-Covered Walkway, 1-Site Improvement, 1-Library Building (6)
Description of Service:	Koury provided inspections for steel fabrication shop, welding, concrete batch plant, non-destructive testing, epoxy anchoring, rebar tag & sample, grout, and ultrasonic mag particle.
Client Name:	LAUSD | Los Angeles Unified School District
Contact Name & Title:	Peyman Soroosh, Supervising Structural Engineer
Client Address:	333 South Beaudry Avenue, Los Angeles, CA 90017
Phone:	(310) 499-4379

KOURY
PASSION INTEGRITY QUALITY

SECTION II – PERSONNEL

PROJECT TEAM

The key personnel for the Altadena Library District are listed below with their proposed roles. Their background and experience are provided on their resumes to follow.



PROJECT TEAM AVAILABILITY

Every member of our staff will be working out of our corporate office located at 5711 Schaefer Ave in Chino, less than 35 miles east from the District.

The primary points of contacts that will be managing the relationship with the District will be Anthony Fielding, Project Manager and Maqael Knight, Business Development Manager.

Staffing Commitments

We have over 90 inspectors in the field daily, on average, with the ability to double our current workload. We have an incredible dispatch team that is capable of matching experienced inspectors and providing experienced testing professionals for several large and complex projects under construction over the next 12-24 months.

Our management staff and engineers availabilities are listed below for the next 12-24 months. Our office personnel are fully available for the District at all times during this contract.

Our team understands construction is dynamic and has procedures to accommodate urgent and last-minute requests. When selected, we anticipate completing all tasks following the project schedule. Through our staffing management and the large pool of inspectors and technicians, we will be able to fulfill all of the District's requirements.

Key Personnel	Project Role	Workload	
		Current	Available
Anthony Fielding	Project Manager	50%	50%
Maqael Knight	Client Representative	40%	60%
Jacques B. Roy, P.E., G.E.	Principal-In-Charge	50%	50%
Armen Gaprelian, P.E., G.E.	Professional Engineer	60%	40%
Albert Buffet, P.G.	Professional Geologist	40%	60%
Israel Mascareno	Staff Engineer	50%	50%
Kathleen Menefee	Field Supervisor	N/A	100%
Gerrit Schriemer	Laboratory Manager	50%	50%
Soils Technicians	Field Staff	N/A	100%
Deputy Inspectors	Field Staff	N/A	100%

We understand the need to deliver projects on time and the cost of standby equipment on site. Our large base of professionals allows us to be responsive to client requests and to complete all project tasks according to schedule. Our present and expected workload is such that there are more than a sufficient number of personnel that can be assigned to complete services for any size project.

ANTHONY FIELDING

Project Manager

PROFESSIONAL PROFILE

Mr. Anthony Fielding has several years of experience in the construction industry. He has an extensive Quality Control and Quality Assurance background. Mr. Fielding is responsible for managing dispatch and field personnel to provide quality customer service. His duties include monitoring projects to ensure adequate inspection and testing personnel are provided, materials are sampled as required for quantity, oversight of integrity of field personnel and quality control purposes. He also makes on-site visits to guarantee the adherence to industry standards and procedures by field personnel.

Years of Experience: 3+

Education:

Rio Hondo College – Whittier, CA – General Education

Riverside Community College – Norco, CA - Interpreting Blueprints and Drawings

All American Contractors School – Rosemead, CA – State Contractor Regulations

PROJECT EXPERIENCE

Delta Airlines Terminal Expansion Phase 1 and 3 at LAX

City of Santa Monica | Clover Park Restroom Replacement

Giles Engineering Services – Multiple Chick-fil-A Locations

425 Towne Umeya – Apartments

LA County | Building and Safety Alhambra Office

City of South Gate | Firestone Boulevard Phase II

Great Park – FAA Building (Formerly El Toro Marine Base)

Caltrans District 7 Construction on State Highway – Thousand Oaks Ventura, CA

City of Manhattan Beach | Street Resurfacing Project - Cycle 1

SMMUSD JAMS Library Renovation

Tehachapi Municipal Airport Taxi Way A Rehabilitation and Relocation

City of Huntington Beach | Slater Pump Station

LAUSD - Reseda CHS Comp Mod Pkg. H - MPR, Library, and South Site

City of Chino | Well 11 Raw Water Transmission Main

Troth Street Elementary School Modernization

City of Beverely Hills - Library Admin Staff Office Remodel

Menifee Union SD Elementary School #15 a K-5 campus

Residences on Main Apartments

Edison Community Center

Library | Hensel Phelps Reseda

JACQUES ROY, P.E., G.E.

Principal-In-Charge

PROFESSIONAL PROFILE

Mr. Roy has more than thirty years of experience in geotechnical and civil engineering. He is a registered Civil and Geotechnical Engineer in California, Colorado, Alaska, and Canada. He has served as the Engineer-of-Record on more than 500 projects. In addition, Mr. Roy has performed quality assurance for field construction, assigned and supervised laboratory testing, performed project management, cost estimating and supervised investigation and construction. His duties also include reviewing geotechnical reports, transportation studies and computer models; preparing engineering calculation packages; performing difficult studies for foundations, earth retaining structures and ground stabilization; and providing special field observations and monitoring.

Years of Experience: 30+

Education:

M.S., Geotechnical Engineering, University of British Columbia, Canada,

B.S., Civil Engineering, University of Sherbrook

Registrations/ Certifications:

Geotechnical Engineer, 2077, California, 1988 (License # 2077)

Civil Engineer, 35386, California, 1982

(License # 35386)

PROJECT EXPERIENCE

City of Corona:

Border Street Curb Gutter Asphalt Replacement Project

Weirick Road Paving

Ridgeview Terrace Paving

Geotechnical Engineer - Mr. Roy performed quality assurance for field construction, assigned and supervised laboratory testing, performed project management, cost estimating and supervised investigation.

Hillside Avenue, Norco, CA

Geotechnical Engineer - Mr. Roy performed quality assurance for field work, assigned and supervised laboratory testing, performed project management.

City of Chino Hills, Mystic Canyon Drive Rehabilitation

Geotechnical Engineer - Mr. Roy performed quality assurance for field construction, assigned and supervised laboratory testing, performed project management, cost estimating and supervised investigation for this Street Rehab project.

Southern California Logistics Airport, Runway 12-35 Rehabilitation
Reconfigured over 2,000 linear feet of runway and replacing to current FAA Standards. Geotechnical Engineer - Mr. Roy performed quality assurance for field work, assigned and supervised laboratory testing, performed project management.

City of Santa Monica, Wastewater Main Replacement

Geotechnical Engineer - Project consisted of the removal and replacement of an existing six-inch sewer main, with a new eight-inch sewer main. Koury supported the City with geotechnical inspection and testing, including compaction testing, pipe zone backfill compaction, trench backfill compaction, asphalt concrete pavement sampling and testing, and concrete pavement sampling and testing.

ARMEN GAPRELIAN, P.E., G.E.

Professional Engineer

PROFESSIONAL PROFILE

Mr. Gaprelian has over twenty-five years of experience as an engineering consultant. He acts as a Project Engineering Consultant for our company reviewing tests and documentation for various municipalities and school districts. For the past 15 years, Mr. Gaprelian has been directly involved with managing and overseeing the engineering as well as the construction phases of the various projects he has managed, including many DSA projects. He acts as a project engineer, overseeing all testing and inspection of materials in our multi-certified laboratory.

Years of Experience: 25+

Education:

Civil Engineering – Majoring on Geotechnical Engineering and Construction Management, University of New South Wales, Sydney, Australia, 1993.

M.S. Geotechnical Engineering, University of New South Wales, Sydney, Australia, 1996.

Registrations/ Certifications:

Professional Civil Engineer No. C 61053, California

Professional Geotechnical Engineer No. GE 2668, California

PROJECT EXPERIENCE

City of Corona:

Border Street Curb Gutter Asphalt Replacement Project

Weirick Road Paving

Ridgeview Terrace Paving

Butterfield Park Lighting & Site Improvements

Armen acted as the project engineer, overseeing testing and inspection of materials preformed in our multi-certified laboratory.

Hillside Avenue, Norco, CA

Armen acted as the project engineer, overseeing testing and inspection of materials preformed in our multi-certified laboratory.

University of California Riverside

Armen acted as the project engineer, overseeing testing and inspection of materials preformed in our multi-certified laboratory for the following projects:

Student Success Center | 2019

Barn Expansion Project | 2019

Sports Event Center | 2019

Los Angeles Community College District

Armen acted as the project engineer, overseeing testing and inspection of materials preformed in our multi-certified laboratory for the following projects:

Football Field and Northwest Area Storm Water Implementations | 2020

Southeast Hall SI | 2020 & Sports Event Center | 2019

East Los Angeles College | Storm Water Implementation Projects
Los Angeles, CA

Armen acted as the project engineer, overseeing testing and inspection of materials preformed in our multi-certified laboratory.

ALBERT BUFFET, P.G.

Professional Geologist

PROFESSIONAL PROFILE

Mr. Buffet has over 8 years of experience. He has extensive experience of laboratory soils testing and on site geotechnical services and drilling. While on site, he ensures that design drawing and specified building codes are followed. He is a certified nuclear gauge specialist, ICC soils (EC), ACI Field I, ASTM, and CalTrans specialist. Mr. Buffet provides inspection and observation for soils and concrete. He has performed the sampling and testing of materials as required for each specialty and project. Albert is able to perform soil classification, grading, trenching, mixing, paving, coring, environmental testing, and traffic control. Soils Investigations “Conducting drilling operations” staking boring locations, arranging digalert and drill crew, complete field and digital boring logs, perform SPT, CD, and Bulk Samples.

Years of Experience: 8+

Education:

Bachelor of Science in Geology; California State University - Northridge - 2014

Registrations/ Certifications:

Professional Geologist (P.G. 10224)

ICC: Soils

Irvine: Reinforced Concrete

Los Angeles: Grading

Long Beach: Driven Piles

CTM: 105, 106, 201, 202, 206, 207, 2016, 217, 226, 227, 231

ACI: Field Testing Technician Grade I

TWIC

Nuclear Gauge Certified: 20152020

20152020 40HR HAZWOPER Training

PROJECT EXPERIENCE

City of Santa Monica | Firestation #1

Geotechnical - Soils technician for material observation, and testing during construction of asphalt concrete, and compaction testing of soil and base materials.

City of Beverly Hills | 3rd Street Tour Bus Station and Restrooms

Geotechnical - Soils technician for material observation, and testing during construction of asphalt concrete, and compaction testing of soil and base materials.

Port of Long Beach | Harbor Scenic Dr. & Pier J Intersection Improvements Harbor Scenic Dr

Geotechnical - Soils technician for material observation, and testing during construction of asphalt concrete, and compaction testing of soil and base materials.

City of Sante fe Springs | Street Improvements Greenleaf Ave Between Los Nietos Rd and Telegraph Rd

Geotechnical - Soils technician for material observation, and testing during construction of asphalt concrete, and compaction testing of soil for trench backfill.

City of Brea | The Tracks at Brea - Segment 6 Kraemer Blvd. to Surveyor Ave.

Geotechnical - Soils technician for material observation, and testing during construction of asphalt concrete, and compaction testing of soil for trench backfill.

KATHLEEN MENEFEE

Field Supervisor

PROFESSIONAL PROFILE

Ms. Menefee has over 12 years of experience in the construction industry. She has experience both in the field and in the office as an inspector, field supervisor, QC Manager, and Project Manager. She has served as a field supervisor on several projects coordinating the structural design, construction document production and review, shop drawing review, and construction inspections. She has serviced many projects as a field supervisor and has exceptional interpersonal, organizational, and computer skills.

PROJECT EXPERIENCE

Years of Experience: 12+

Registrations/Certs:

ICC Reinforced Concrete

ACI: Concrete Grade 1

CalTrans Testing: 504, 518, 539, 540, 543, 556, 557

Victorville Sanitary Landfill - Bridge

City of Santa Monica | SP2235 Fire Station #1

Reseda CHS Comprehensive Modernization Package C- Building 7

Big Bear Transfer Station | Floor Repair Construction Project

Troth Street Elementary School Modernization

Prima Deshecha Landfill

812 Main Street Hotel

City of Chino | Well 11 Raw Water Transmission Main

Capistrano Greenery Construction | Prima Deshecha Landfill

City of Beverly Hills | Greystone Brick Walkway

LAUSD - Belvedere Middle School - Comprehensive Modernization

Ocean View Channel

City of Beverly Hills | City Hall Tower Rehabilitation

5th Street and Deputy Evans Sewer Repair

City of Costa Mesa | Permanent Bridge Homeless Shelter

605 Industry Logistics Center Tilt Up

City of Fontana | Valley Boulevard at Oleander Avenue Traffic Signal

425 Towne (Umeya) Apartments

City of Glendale | Pennsylvania Avenue Rehabilitation Project

8497 Sunset Mixed-Use Project

City of Santa Monica | Clover Park Restroom Replacement

INSPECTOR QUALIFICATIONS

Name	Title	Certifications	Years of Exp.
Dea Allen	Concrete | Soils | Welding | Bolting Inspector	ICC Spray Applied Fire Proofing, Reinforced Concrete, Soils Structural Steel and Bolting, Prestressed Concrete, and Structural Welding ACI Concrete Field Testing Technician – Grade I CalTrans Testing: 504, 518, 539, 540, 543, 556, 557 Nuclear Gauge Certified	22
William (Bill) Bray	CWI | Bolting Inspector	AWS Certified Welding Inspector (CWI) ICC Structural Welding, Structural Steel and Bolting City of Los Angeles: Steel, Drilled-in anchors	20
Denny Kong	Masonry | Concrete | Fireproofing | Welding Inspector	ICC Master of Special Inspection, Welding, Concrete, Commercial Building, Masonry, Steel and Bolting, Prestressed Concrete, and Fireproofing ICC Mechanical, Plumbing, Electrical, Combination ACI Concrete Field Testing Technician Certified Welding Inspector (CWI) City of Los Angeles - Deputy Inspector	10
Juliana Korsborn	Concrete | Soils | Masonry | Bolting Inspector	ICC Concrete, Masonry, Steel and Bolting, and Soils ACI Concrete Field Testing Technician – Grade I HAZMAT Training Nuclear Gauge Certified CalTrans Testing: 105, 125 AGG, 201, 205, 216, 217, 226	5
Raymond Mitchell	Masonry | Shotcrete | CWI Inspector	ICC Reinforced Concrete, Post Tension Concrete, Structural Masonry, California Comm. Building Inspector, Spray Applied Fireproofing, High Strength Bolting And Structural Steel Welding, Plumbing, Master Of Special Inspections, and Soils AWS Certified welding inspector (CWI#20031331) DSA Masonry and DSA Shotcrete ACI Field Grade Technician Grade 1, Masonry Field Technician Grade 1, and Adhesive Anchor Installation Inspector Firewrap Inspector Fire Stop Penetration Inspector	15
Michael Rothamel	Masonry | Shotcrete | Certified Welding Inspector	ICC Structural Masonry, Reinforced Concrete, Prestressed Concrete, Structural Steel and Bolting, Structural Welding, Master of Inspection, California Commercial Electrical, and Spray Applied Fire Proofing ACI Concrete Field Testing Technician – Grade I Certified Welding Inspector (CWI) DSA Masonry Inspector # 6029 DSA Shotcrete Inspector # 6368	10
Jose Serrano	Concrete | Masonry | Structural Steel | Bolting | CWI Inspector	ICC Reinforced Concrete, Prestressed Concrete Codes Module, Structural Masonry Codes Module, Structural Masonry Plans Module, Prestressed Concrete, Structural Masonry, Structural Steel and Bolting, Structural Welding, Master of Special Inspection, Structural Steel and Bolting Codes Module, and Structural Steel and Bolting Plans Module ACI Concrete Field Testing Technician – Grade I Certified Welding Inspector (CWI)	8

**Additional Inspectors Available*

KOURY
PASSION INTEGRITY QUALITY

SECTION III – QUALIFICATIONS

QUALIFICATIONS

UNDERSTANDING OF SERVICES

We understand that the scope of services is to provide all needed construction inspection/testing and soils engineering/geotechnical services for the works of improvement to the Bob Lucas Memorial Branch Library & Literacy Center and/or the Altadena Main Library. We understand the scope of services will include, but is not limited to, additions for a larger multi-use community space and the full renovation of the existing building for the Altadena Main Library. While the planned improvements for the Bob Lucas Memorial Library & Literacy Center include the expansion of the building footprint and a new exterior reading court with landscaping, a water feature, a garden trellis, seating options, new fencing, and retaining walls.

We can provide all services listed for special inspections and soils engineering/geotechnical services. We understand that this may include inspections of structural steel, concrete, masonry, welding, and all required or requested investigations and reports by an approved soil testing agency, geotechnical engineer and/or engineering geologist, as required by any LA County Building Code Ordinance.

We offer monthly summary reports that include personnel working hours and a synopsis of the task completed. We are aware that monthly invoices will be sent together with supporting documentation such daily reports and test results and a thorough time record of all work completed. Our commitment is meeting the needs of our clients on time and within their budget.

KOURY'S MISSION

At Koury, we are focused on delivering what the client needs on time and within budget. We are committed, without exception, to providing responsive and quality service to our clients with the objective of developing long-term relationships. We will approach each of your projects with the dedication and attention to detail that they deserve. Our capabilities allow us to deal with demanding and complex projects without sacrificing personal attention. We are proud of our long list of repeat clients, and we appreciate the confidence placed in us.

We strive to be a team of passionate professionals serving the public through our quality testing and inspection services. We are dedicated to attracting and retaining top talent and clientele in the industry because of our integrity and commitment to excellence.

Our vision is to be the preferred and most trusted testing and inspection services provider in Southern California and to support and execute practices that encourage a thriving culture.

Koury prides itself on its work ethic and teamwork, which helps us establish and maintain your confidence in our long-standing reputation of quality, reliability, and personal attention. Our goal is to ensure the success and structural integrity of your project. Our core values are Passion, Integrity, and Quality.

CLIENT HISTORY

In addition to the projects mentioned earlier, Koury provided similar services for RUSD | University Heights Middle School Modernization, MUSD | Menifee Union SD Elementary School #15 a K-5 campus, Residences on Main, and City of Norwalk | Library. For every project, we delivered our services on time and within the designated budget.

KOURY
PASSION INTEGRITY QUALITY

SECTION IV – COST SECTION

MASTER SCHEDULE OF FEES *(Prevailing Wage)*

Rates will be adjusted annually on July 1st to reflect increased costs.

Item Code	Description	Unit	Rate
FIELD INSPECTIONS			
ICC Inspector	Soils/ LA Deputy/ Str. Concrete/ Masonry/ Bolting/Fireproofing	Hourly	$ 130.00
AWS/CWI Welding Inspector	AWS/CWI Welding Inspector	Hourly	$ 130.00
DSA Inspector	DSA Inspector	Hourly	$ 130.00
Welding Qulify PQR/WPQR	Welder Qualification Inspector	Hourly	$ 175.00
HCAi Project Inspector	HCAi Project Inspector	Hourly	$ 130.00
Quality Control Manager	Quality Control Manager	Hourly	$ 135.00
QC/QA Public Works Inspector	QC/QA Public Works Inspector	Hourly	$ 130.00
QC/QA Public Works Technician	QC/QA Public Works Technician	Hourly	$ 130.00
ACI / Soils Technician	ACI/ Soils Technician	Hourly	$ 130.00
OFF SITE FABRICATION SHOP			
Steel Fab Shop	Inspector: Steel Fabrication Shop	Hourly	$ 130.00
Block Tag & Sample	Block Fabrication: Tag/Sample	Hourly	$ 130.00
Rebar Tag & Sample	Rebar/Steel Fabrication: Tag/Sample	Hourly	$ 130.00
Out of State Fab Shop	Inspector: Out of State Fab Shop	Hourly	$ 130.00
Concrete – Precast Shop	Concrete – Precast Shop	Hourly	$ 130.00
Fab Shop Local UT, MT	Fab Shop Local UT, MT	Hourly	$ 200.00
ON SITE FIELD TECHNICIAN			
Schmidt Hammer	Schmidt Hammer	Hourly	$ 195.00
Torque Testing	Technician: Torque Testing	Hourly	$ 195.00
Pull Test	Technician: Pull Test	Hourly	$ 195.00
Concrete/Shotcrete Coring	Technician: Coring	Hourly	$ 205.00
Floor Flatness	Technician: Floor Flatness Testing	Hourly	$ 200.00
Pachometer Testing	Technician: Pachometer Survey	Hourly	$ 195.00
Vapor Moisture Testing	Technician: Vapor Moisture Testing	Hourly	$ 195.00
NON DESTRUCTIVE TESTING			
NDT	Non Destructive Testing: UT,PT,MT	Hourly	$ 155.00
Radiography	Technician: Radiography 1-Man	Hourly	$ 200.00
Radiography Crew	Crew: Radiography	Hourly	$ 400.00
GPR	Technician: GPR	Hourly	$ 235.00
Utility Locating	Technician: Utility Locating	Hourly	$ 275.00
4.5x10 Radiography Film	Radiography Film 4.5x10	Sq/In	$ 0.15
4.5x17 Radiography Film	Radiography Film 4.5x17	Sq/In	$ 0.30
Radiography Film 14x17	Radiography Film 14x17	Sq/In	$ 0.45
Developer/Cleaner	Penetrant, Developer, Cleaner	Can	$ 20.00
Mag Particle Powder	Magnetic Particle Powder	Can	$ 20.00
Couplant	Couplant	Can	$ 20.00
Aerosol PT/MT	Aerosol PT/MT	Can	$ 20.00
Isotope Depletion	Isotope Depletion	Each	$ 35.00
Hazardous Waste	Hazardous Waste Disposal Fee	Each	$ 30.00
LABORATORY SOILS/ AGGREGATE TESTING			
CA Bearing Ratio	ASTM D1883	Sample	$ 605.00
Consolidation	ASTM D2435	Sample	$ 275.00
Consolidation wi	ASTM D2435	Sample	$ 335.00
Direct Shear	ASTM D3080	Sample	$ 375.00
Expansion	ASTM D4829	Sample	$ 240.00
Unconfined Comp	ASTM D2166	Sample	$ 335.00
Hydro Collapse	ASTM D5333	Sample	$ 240.00
Tri-Axial Shear	ASTM D2050	Sample	$ 470.00
In-Place Density	ASTM D2937	Sample	$ 65.00
Moisture & Density	ASTM D2216	Sample	$ 45.00
Maximum Density	ASTM D698 & D1557	Sample	$ 290.00
Moisture, Ash, O	ASTM D2974	Sample	$ 110.00

Item Code	Description	Unit	Rate
pH of Soils	ASTM D4972	Sample	$ 115.00
Const Head Perme	ASTM D2434	Sample	$ 470.00
Swell Potential	ASTM D4546	Sample	$ 240.00
Shrinkage Factor	ASTM D4943	Sample	$ 260.00
Soil-Cement Maxim	ASTM D558	Sample	$ 375.00
Soil Cement Sampl	ASTM D559	Sample	$ 140.00
Soil Cement	ASTM D1633	Sample	$ 110.00
Sieve Analysis, Combined	CT202, ASTM C136, & AASHTO T27	Sample	$ 245.00
Sieve Analysis, Fine	CT202, ASTM C136, & AASHTO T27	Sample	$ 190.00
Sieve Analysis, Coarse	CT202, ASTM C136, & AASHTO T27	Sample	$ 185.00
Material Finer than #200	ASTM D1140, ASTM C117	Sample	$ 140.00
Sieve Analysis/ Hydrometer	ASTM D422	Sample	$ 335.00
Flat and Elongated	CT235 & ASTM D4791	Sample	$ 390.00
Percentage Crushed Particles	CT205, AASHTO T335	Sample	$ 205.00
Specific Gravity, Coarse	CT206, ASTM C127 & AASHO T85	Sample	$ 185.00
Specific Gravity, Fine	CT207, ASTM C128 & AASHO T84	Sample	$ 225.00
Apparent Specific Gravity Fines	CT208, CT 209, AASHTO T100, & ASTM D854	Sample	$ 275.00
Durability Index	CT229	Sample	$ 405.00
Angularity & Voids	CT234, ASTM C1252, & AASHTO T304	Sample	$ 265.00
Abrasion, LA Rattler	CT211, ASTM C535, AASHTO T96 & ASTM C131	Sample	$ 335.00
Cleanness Value	CT227	Sample	$ 390.00
Organic Impurities	CT213 & ASTM C40	Sample	$ 135.00
Soundness by Sodium S	CT214, ASTM C88	Sample	$ 535.00
Moisture Content by Oven	CT226, ASTM C566	Sample	$ 45.00
Sand Equivalent	CT217, ASTM D2419 & AASHTO T176	Sample	$ 170.00
CT521 Compressive Strength_540	CT521 Compressive Strength LCB	Sample	$ 40.00
Atterberg Limits - Liquid / Plasticity Index	CT204 & ASTM D4318	Sample	$ 305.00
Caltrans Impact Density	CT216	Sample	$ 265.00
R-Value	CT301 & ASTM D2844	Sample	$ 390.00
Soluble Sulfates	CT417	Sample	$ 135.00
Chloride Content	CT422	Sample	$ 115.00
Resistivity Test	CT643 Resistivity and pH	Sample	$ 135.00
Alkali-Silica Rectivity	ASTM C289	Sample	$ 670.00
Percent Fracture Particles	ASTM D5821	Sample	$ 205.00
Percent Lightweigt Particles	ASTM C123	Sample	$ 275.00
Clay Lumps & Friable Particles	ASTM C142	Sample	$ 260.00
LABORATORY TESTING ASPHALT			
Core Density (SSD)	ASTM D2726 & CT308	Sample	$ 65.00
Core Density Parafin Coated	ASTM D1188, CT308, & AASHTO T275	Sample	$ 75.00
AC Marshall	ASTM D6926 Lab Max Density Marshall	Sample	$ 335.00
Marshall Stability Test	ASTM D6927 Marshal Stability and Flow	Sample	$ 440.00
LTMD Kneading Compactor	ASTM D1561& CT 304/308	Sample	$ 440.00
Hveem Stability and Density	ASTM D1560 & CT308/366	Sample	$ 440.00
Hveem Stability	ASTM D1560 & CT366	Sample	$ 365.00
Ignition Oven Correction Factor	ASTM D6307, AASHTO T308A & CT382	Sample	$ 405.00
Maximum Theoretical Density	ASTM D2041, AASHTO T209 & CT309	Sample	$ 265.00
Asphalt Content/Gradation_436	Asphalt Content/Gradation	Sample	$ 255.00
Asphalt Content by Ignition	ASTM D6307, CT382, & AASHTO T308	Sample	$ 255.00
Asphalt Content by Solvant	ASTM D2172	Sample	$ 375.00
Asphalt Content by Nuclear Gauge	ASTM D4125 & CT379	Sample	$ 335.00
Gradation of Extracted Aggregate	ASTM D5444	Sample	$ 275.00
Emulsion Residue Evaporation	ASTM D244	Sample	$ 240.00
Swell of Bituminous Mixtures	CT 305	Sample	$ 470.00
ASTM D3910 Wet Track Abrasi_472	ASTM D3910 Wet Track Abrasion	Sample	$ 205.00
Hamburg Wheel Track	AASHTO T324	Sample	$ 1,320.00

Item Code	Description	Unit	Rate
Tensile Strength Ratio (TSR)	AASHTO T283 & CT371	Sample	$ 1,260.00
Bitumen Ratio	CT 303	Sample	$ 335.00
Gyratory Compactor	AASHTO T312/T275	Sample	$ 440.00
Moisture Content by Oven	AASHTO T329 & CT370	Sample	$ 110.00
CONCRETE/ MASONRY LABORATORY TESTING			
Concrete Cylinder	ASTM C39 & CT521	Sample	$ 45.00
Flexural Beams Test	ASTM C78, CT523 & CT524	Sample	$ 75.00
Grout Compression Test	ASTM C1019	Sample	$ 45.00
High Strength Grout Test	ASTM C109	Sample	$ 45.00
Mortar Compression Tests	ASTM C780	Sample	$ 45.00
Masonry Prism-8"_610	ASTM C1314	Sample	$ 195.00
Masonry Prism 12"	ASTM C1314	Sample	$ 210.00
CMU Compression, Absorprion, Shrinkage	ASTM C140	Each	$ 80.00
Shotcrete, Masonry, Gunite Core Testing	ASTM C42 Compression or Shear	Each	$ 65.00
Core Cutting	ASTM C42	Sample	$ 75.00
Beam Drying Shrinkage	ASTM C157 (3 Bars – Four Readings)	Sample	$ 250.00
MATERIAL LABORATORY TESTING			
Rebar Bend or Tensile	ASTM A615/A706	Each	$ 70.00
Rebar Coupler Tensile Up to No. 11 Bar	ASTM A615/A760	Sample	$ 135.00
Rebar Coupler Tensile No. 14 Bar	ASTM A615/A760	Sample	$ 185.00
Rebar Coupler Tensile No. 18 Bar	ASTM A615/A760	Sample	$ 275.00
Coupon Tensile or Coupon Bolt Test	ASTM A370/F606	Each	$ 95.00
Bolt Tensile, Bolt Proof, Hardness, or Nut Proof	ASTM A370/F606	Each	$ 65.00
Brinell or Rockwell Hardness Test	E10 or E18	Sample	$ 55.00
Nelson Stud Tensile or Metal Deck Tensile	ASTM A370/F606	Sample	$ 125.00
Metal Deck Coating	A90	Sample	$ 115.00
Weld Guide Bend Test	ASTM A370/F606	Sample	$ 95.00
Post-Tension Strand Tensile & Elongation	ASTM A416	Sample	$ 170.00
Fireproof Density Tests	ASTM E605	Sample	$ 70.00
Fiber Wrap	ASTM D7205	Sample	$ 1,250.00
Fiber Wrap – Bond Testing	ASTM D7205	Sample	$ 50.00
Modulus of Elasticity	ASTM C469	Sample	$ 350.00
CLERICAL ENGINEERING REPORT			
Final MI Report	Final Material Inspection Compliance Report	Report	$ 600.00
Compaction	Compaction Report	Report	$ 2,500.00
SI Report	Geotechnical (Soils) Investigation Report	Report	$ 2,500.00
Pad Certification	Pad Certification Report	Report	$ 1,500.00
Final Grading Report	Final Grading Report (Comprehensive)	Report	$ 2,500.00
750 PROJECT COORDINATION			
Principal Engineer	Principal Engineer	Hourly	$ 200.00
Principal Geologist	Principal Geologist	Hourly	$ 198.00
Project Manager	Project Manager	Hourly	$ 198.00
EQUIPMENT & FEES			
Truck Charge	Truck Charge	Per Day	$ 116.00
Mobile Film Developing Rig	Mobile Film Developing Rig	Per Day	$ 200.00
Nuclear Gauge	Nuclear Gauge	Per Day	$ 65.00
Sample Pick Up (Soils)	Sample Pick Up (Soils)	Hourly	$ 165.00

BILLING PRACTICES

GENERAL CHARGES

1. Koury requires twenty-four (24) hours prior notification for scheduling inspectors and/or technicians.
2. Inspection charges start at the scheduled show-up time at the job site. All inspection hours will be billed in the following increments.
    - There will be a minimum two (2) hour charge for any Koury Engineering & Testing team member on site.
    - Any time less than four (4) hours of work will be billed as four (4) hours.
    - Four (4) to eight (8) hours will be billed as eight (8) hours.
3. When personnel are required to work in excess of five (5) hours without an uninterrupted meal period of 30 minutes, due to project constraints, ½ hour will be charged at double time rates in addition to any applicable hours worked.
4. Rates are valid through June 30, 2026.
5. Administrative/clerical support will be billed at 5% of the monthly direct charges.
6. Certified payroll reports will be prepared upon request for a cost.
7. Outside services will be billed at cost plus 15% unless billed directly to and paid for by the Client.
8. Request made by the client for management attendance at meetings at the project site will be charged at standard rate.
9. Travel Time Portal to Portal will be billed at hourly and overtime applies.
10. Koury bills on a biweekly basis and we include budget breakdown with every invoice.

OVERTIME CHARGES

1. Worked performed in excess of eight (8) hours per day and/or up to eight (8) hours on Saturdays will be billed at 1.5 times the unit rate.
2. Work performed on Sundays, recognized holidays, or in excess of eight (8) hours on Saturdays will be billed at 2.0 times the unit rate.
3. A 20% surcharge will be applied for laboratory tests performed on a Saturday or Sunday.

KOURY
PASSION INTEGRITY QUALITY

APPENDIX

LABORATORY CERTIFICATIONS

AASHTO ACCREDITED

CERTIFICATE OF ACCREDITATION

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AASHTO

Koury Engineering & Testing, Inc.

in

Chino, California, USA

has demonstrated proficiency for the testing of construction materials and has conformed to the requirements established in AASHTO R 18 and the AASHTO Accreditation policies established by the AASHTO Committee on Materials and Pavements.

The scope of accreditation can be viewed on the Directory of AASHTO Accredited Laboratories (aashtoresource.org).

Jim Tymon,
AASHTO Executive Director

Moe Jamshidi,
AASHTO COMP Chair

This certificate was generated on 07/14/2023 at 5:46 PM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory

CITY LA DBS DEPARTMENT OF BUILDING AND SAFETY

Testing Agency Roster

Search

License Number

Company Name

State

CA

Zip Code

Search | See All

License Number	Company	Address	Expire Date	Telephone	License Description
TA10129-0	Koury Engineering and Testing, Inc.	14280 Euclid Avenue, Chino, CA, 91710	4/1/2024	(909) 606-6111	/Aggregates/Asphalt/Concrete/Fireproofing/Fiber Reinforced Polymers/Grout/Masonry/Nondestructive/Rebar/Soil/Stranded Steel Cables/
TA10129-1	Koury Engineering and Testing, Inc.	11473 Pacific Ave., Fontana, CA, 92337	4/1/2024	(909) 988-4054	Nondestructive Testing (ET,LT,MT,PT,RT,UT,VT)

CCRL
Cement and Concrete
Reference Laboratory
www.ccrl.us

May 6, 2021

Mr. Charles Ferguson
Laboratory Manager
Koury Engineering & Testing, Incorporated
14280 Euclid Avenue
Chino, California 91710

Subject: Remote Inspection of Concrete, Reinforcing Bar, and Concrete Masonry Unit Testing Laboratory

Enclosed is a confirmatory report on Inspection Q150, which was completed in your testing laboratory in Chino, California, on April 16, 2021, by a representative of the Cement and Concrete Reference Laboratory.

This letter, and the accompanying report, provides written evidence that your laboratory has been inspected during the 38th Inspection Tour.

Very truly yours,

Jan A. Prowell

Jan A. Prowell
Director
Cement and Concrete Reference Laboratory

Enclosure

cc: L. Zuniga

4441 Buckeystown Pike, Suite C ❖ Frederick, Maryland 21704
phone: 240-436-4800 ❖ fax: 610-834-7066 ❖ email: ccrl@astm.org
Sponsored by Committees C-1 and C-9 of ASTM International

LABORATORY CERTIFICATIONS *(cont.)*

State of California-Health and Human Services Agency — California Department of Public Health

RADIOACTIVE MATERIAL LICENSE

Pursuant to the California Code of Regulations, Division 1, Title 17, Chapter 5, Subchapter 4, Group 2, Licensing of Radioactive Material, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, use, possess, transfer, or dispose of radioactive material listed below; and to usesuch radioactive material for the purpose(s) and at theplace(s) designated below. This license is subject to all applicable rules, regulations, and orders of the California Department of Public Health now or hereafter in effect and to any standard or specific condition specified in this license.

1 Licensee:	Koury Engineering & Testing, Inc.	3. License Number: 6449-19	Amendment Number: 25
2. Address:	14280 Euclid Avenue Chino, CA 91710	4. Expiration Date: October 17, 2029	(5)
Attention:	Michael Carrillo Radiation Safety Officer	5. Inspection Agency:	Radiologic Health Branch South

License Num ber 6449-19 is hereby renewed in its entirety.

6. Nuclide	7. Form	8. Possession Limit
A. Cesium-137/Americium-241 :Be	A. Sealed sources (Troxler Drawing No. A-102112 and A-102451	A. 25 source pairs not to exceed 333.0 MBq (9 mCi) of cesium-137 and 1.6 GBq (44 mCi) of americium-241 each*.
B. Cesium-137/Americium-241 :Be	B. Sealed sources (CPN Model CPN-131)	8. 25 source pairs not to exceed 370.0 MBq (l0 mCi) of cesium-137 and 1.9 GBq (50 mCi) of americium-241 each*.

* Total not to exceed 55.5 GBq (1.5 Ci) in 25 source pairs.

9. Authorized Use

A. To be used as components of gauges, Troxler Electronics Laboratories Model 3400 series, for determination of moisture/density in engineering materials.

8. To be used as components of gauges, CPN International Division of InstroTek, Inc., Models MC or 500 series, for determination of moisture/density in engineering materials.

LICENSE CONDITIONS

10. Radioactive materials may be used at temporary job sites of the licensee in areas not under exclusive federal jurisdiction throughout the State of California (see Condition 15). Radioactive materials may be permanently stored only at following approved location:

(a) 14280 Euclid Avenue, Chino, CA.

11. This license is subject to an annual fee for sources of radioactive material authorized to be possessed at any one time as specified in Items 6, 7, 8 and 9 of this license. The annual fee for this license is required by and computed in accordance with Title 17, California Code of Regulations, Sections 30230-30232 and is also subject to an annual cost-of-Iiving adjustment pursuant to Section I00425 of the California Health and Safety Code.

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 12/15/2023

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

Cornerstone Specialty Insurance Services, Inc.
14252 Culver Drive, A299
Irvine CA 92604

CONTACT NAME: Tina Cowie
PHONE (A/C, No, Ext): (714) 731-7700 **FAX (A/C, No):** (714) 731-7750
E-MAIL ADDRESS: tina@cornerstonespecialty.com

INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A :	Continental Casualty Company	20443
INSURER B :	Continental Insurance Co	35289
INSURER C :	Insurance Co of the West	27847
INSURER D :		
INSURER E :		
INSURER F :		

INSURED

KOURY ENGINEERING & TESTING, INC.
14280 Euclid Ave
Chino CA 91710

COVERAGES **CERTIFICATE NUMBER:** 23/24 COVERAGES **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	
A	[X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR [X] ADDTL INSRD/ P & NC [X] BLNKT WVR OF SUBRO GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [X] PRO-JECT [ ] LOC [ ] OTHER:	Y	Y	7013458236	12/18/2023	12/18/2024	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 2,000,000 $ 1,000,000 $ 10,000 $ 2,000,000 $ 4,000,000 $ 4,000,000
B	AUTOMOBILE LIABILITY [X] ANY AUTO [ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS [ ] HIRED AUTOS ONLY [ ] NON-OWNED AUTOS ONLY	Y	Y	7013454235	12/18/2023	12/18/2024	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
A	[X] UMBRELLA LIAB [X] OCCUR EXCESS LIAB [ ] CLAIMS-MADE [ ] DED [X] RETENTION $ 0	Y	Y	7013460309	12/18/2023	12/18/2024	EACH OCCURRENCE AGGREGATE	$ 9,000,000 $ 9,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N: Y (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N / A	Y	WSA504511405	12/18/2023	12/18/2024	[X] PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000
A	Professional Liability Claims Made			AEH276166466	12/18/2023	12/18/2024	Each Claim Annual Aggregate	$2,000,000 $2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Evidence of coverage in force. Contractual insurance requirements will be addressed at the time the contract is awarded.

CERTIFICATE HOLDER

FOR PROPOSAL PURPOSES ONLY PLEASE CONTACT
CORNERSTONE SPECIALTY
TO VERIFY COVERAGE IN FORCE

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Tina Cowie

KOURY ENGINEERING
14280 EUCLID AVE
CHINO, CA 91710
(24 Hour) Cell: (310) 713-4005
Office: (909) 606-6111
Fax: (909) 606-6555

Dispatch #: 139162-D23

GEOTECHNICAL DAILY TESTING REPORT

Card No.		
Project No. 23-1677	Date 9-14-23	Day Thursday

Job Address: 1741 E 120th St	City: Los Angeles	
Job Name: MLK JAC Parking Lot Trash Enclosure	Permit No.	Issued By: LA County
Type of Work: Soils	Weather: Sunny	Temperature: High 80s
Geotechnical Personnel: Abel Piña	Contractor	Superintendant

SUMMARY - LOCATIONS OF WORK MONITORED, TESTS TAKEN, WORK REJECTED, JOB PROBLEMS, PROGRESS, REMARKS, ETC.

Surface Conditions ☐ Dry ☐ Moist ☐ Wet ☒ Too Wet to Compact ☐ Failed with Probe

Arrived on site as scheduled. Standardized nuke gauge. Contractor is done excavating and attempting to backfill the parking lot trash enclosure. However, the material is too wet to compact. Informed contractor and city inspector of these concerns immediately. Also observed 4' deep caisson hole needing back fill as well this is pending RFI response with how to proceed. Performed density testing via ASTM D6938 at the locations listed below. One bulk sample was obtained from stock pile next to OX. Material sampled identified as SC F-C Trc. Gvl. Dark Gray. All density testing performed is pending ASTM D1557 results from laboratory.

Test No.	Date	Elevation/ Depth	Test Location	Max. Dry Density (pcf)	Field		Relative Compaction (%)		Remarks		Test Method
					Dry Density (pcf)	M.C. (%)	Field	Min. Required	Soil Type	Lab No.	
1	9/14	SG-3'	Trash enclosure North Portion		83.5	23.1		90			D6938
2	9/14	SG-3'	Trash enclosure SW		81.9	33.7		90			D6938
3	9/14	SG-3'	Trash enclosure NE		87.7	33.4		90			D6938

Lab No.	Soil Description	Soil Type	Max Density	Opt Moisture (%)

THE WORK ☐ WAS ☐ WAS NOT
INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE DSA APPROVED DOCUMENTS

MATERIAL SAMPLING ☑ WAS ☐ WAS NOT ☐ N/A
PERFORMED IN ACCORDANCE WITH THE DSA APPROVED DOCUMENTS

THE WORK INSPECTED ☐ MET ☐ DID NOT MEET
THE REQUIREMENTS OF THE DSA APPROVED DOCUMENTS

Abel Piña
SIGNATURE OF SPECIAL INSPECTOR

SPECIALITY NO. AGENCY

CC: Architect, Engineer, Project Inspector, DSA Regional Office, School District

No Lunch ■ Half Hour Lunch ☐ Nuc Gauge On Site ■

CONTINUED ON NEXT PAGE ☐

PAGE 1 OF 1

TIME IN	TIME OUT	TRAVEL TIME	R.T. MILEAGE	REG HOURS	O.T. HOURS
12:00pm	3:30pm	3	94	4	

Approved By: _____
PROJECT SUPERINTENDENT / IOR

KOURY ENGINEERING
14280 EUCLID AVENUE
CHINO, CA 91710
(24 Hour) Cell: (310) 713-4005
Office: (909) 606-6111
Fax: (909) 606-6555

Date 8/7/23
Project No. 19-0891

REGISTERED INSPECTOR'S DAILY REPORT

TYPE OF INSPECTION REQUIRED			
	☐ Reinforced Concrete	☐ Structural Steel	☐ Quality Control
	☐ Prestressed Concrete	☐ Fire Proofing	☐ Drilled In Anchors
	☐ Reinforced Masonry	☐ Shotcrete	■ Other _____

Project Address: 8497-8499 Sunset Blvd
City: West Hollywood
Project Name: 8497 Sunset
Permit No.: 20030-10K-07084
Issued By: LADBS ICC WEHO B181223
Type of Structure: MULTIFAMILY
Architect: MITHUN
Material Description (type, grade, source, etc.): CONCRETE
Engineer: ENGLEKIRK
Contractor: LAYTON
Inspector's Name: CASEY ZERILLO
Subcontractor: LARGO

TESTS PERFORMED

TYPE OF SAMPLE	SLUMP	QUANTITY IN SET	ADDITIONAL REMARKS ON SAMPLES

INSPECTION SUMMARY- LOCATIONS OF WORK INSPECTED. TEST SAMPLES TAKEN. WORK REJECTED. JOB PROBLEMS. PROGRESS. REMARKS. ETC. INCLUDE INFORMATION ABOUT AMOUNTS OF MATERIAL PLACED OR WORK PERFORMED, NUMBER & TYPE OF TEST SAMPLES TAKEN, STRUCTURAL CONNECTIONS (WELDS MADE, BOLTS TORQUED) CHECKED, ETC.

136565-D23
—Quality control and placement concrete
LOCATION: LEVEL 1, STRUCTURAL ELEVATED DECK. S2.10 Gridline 1-3/C-M
Observed placement of approx. 240 cubic yards of Catalina Ready Mix concrete MIX# 050C4 5000PSI. Concrete placed by LARGO concrete into LEVEL 1 Deck.
ALL CONCRETE PLACED AND CONSOLIDATED PROPERLY

On site for inspection of structural concrete reinforcement.
LOCATION: Structural Beams B19, B18, B8
Observed placement D type bars per S5.01 and related details all Horizontal bars Grade 80
B18- (36)#11 bars
B19- (16)#11 bars
B9- (4) #9 bars
Verified all ties type, size, grade.
A type bar not installed at this time.
WORK IN PROGRESS

QUALITY CONTROL CHECKLIST

☑ CHECKED IN WITH CITY	☑ REVIEWED APPROVED PLAN	☑ TEST PERFORMED PER SPECS.	☑ CALLED IN SAMPLES FOR PICKUP
☑ ON TIME TO JOB	☑ REVIEWED SPECIFICATIONS	☑ CORRECT NO. OF SAMPLES	☑ ALL DEFICIENCIES NOTED
☑ CHECKED PERMIT	☑ REVIEWED PREVIOUS REPORTS	☑ SAMPLES STORED SAFELY	☐ OTHER: _____

CERTIFICATION OF COMPLIANCE
ALL WORK LISTED ABOVE WAS INSPECTED AS REQUIRED BY THE APPROVED PLAN, SPECIFICATIONS, AND GOVERNING CODE
■ WORK COMPLIES WITH APPROVED DOCUMENTS ☐ WORK DOES NOT COMPLY

SIGNATURE OF REGISTERED INSPECTOR

P033855 (SPECIALTY) Concrete (NO) LADBS (AGENCY)

CONTINUED ON NEXT PAGE ☐ PAGE ____ OF ____

TIME IN	TIME OUT	REG. HOURS	O.T. HOURS	SAMPLES
7:00 am	3:00 pm	8.0		

All inspections based on a minimum of 4 hours and over 4 hours - 8 hours minimum. If the inspector is called to a project and no work is performed a two hour minimum charge will be applied. Please verify Q.C. Checklist.

Approved by Rene Rene Lombardo
Project Superintendent

KOURY ENGINEERING
14280 EUCLID AVE
CHINO, CA 91710
(24 Hour) Cell: (310) 713-4005
Office: (909) 606-6111
Fax: (909) 606-6555

SPECIAL INSPECTION REPORT

		Report No.	
DSA File No. 19-BSS		DSA App No. 03-120300	
Job No. 21-0509	Date 03/02/2023	Time 6:30am-5:00pm	

This form is for use on DSA projects only.
Special Inspection Reports must be distributed to the parties listed below within 14 days of the inspection. Reports of non-compliant conditions must be distributed immediately. Separate reports shall be prepared for each type of special inspection on a daily basis. Each report shall be completed and signed by the special inspector conducting the inspection.

TYPE OF INSPECTION PERFORMED

- ☐ Reinforced Concrete
- ☐ Prestressed Concrete
- ☐ Reinforced Masonry
- ☑ Structural Steel Welding
- ☐ Fire Proofing
- ☐ Shotcrete
- ☐ Batch Plant
- ☐ Drilled in Anchors
- ☐ Other _____

Project Address 111 S. Madison Avenue, Los Angeles CA, 90004 City Los Angeles

Project Name Rise Kohyang High School - Bright Star Schools Special Inspector's Name Raymond Mitchell

Architect Berliner Engineer Saiful-Bouquet

Tests Performed

TYPE OF SAMPLE	SLUMP	QUANTITY IN SET	ADDITIONAL REMARKS ON SAMPLES

INSPECTION SUMMARY - LOCATIONS OF WORK INSPECTED, TEST SAMPLES TAKEN, WORK REJECTED, JOB PROBLEMS, PROGRESS, REMARKS, ETC. INCLUDE INFORMATION ABOUT AMOUNTS OF MATERIAL PLACED OR WORK PERFORMED, NUMBER & TYPE OF TEST SAMPLES TAKEN, STRUCTURAL CONNECTIONS (WELDS MADE, BOLTS TORQUED) CHECKED, ETC.

Dispatch Control Number # 128137-D23

Observed the field welding of 1/2" top plate to top of beams between GL G-H along GL G.5/2 per 7/S5.07 of approved plans.

Observed the field welding of W14x176 Column to W24x104 & W24x94 Beams @ GL G/8 & G/6 per 4/S0.31 of approved plans.

Verified approved WPS as well as welder certifications. Certified welders: Carlos Diaz Lic # P032810 Expire: 05/14/2023;

Armando Guzman Lic # P035494 Expire: 07/07/23 Alexander Villalta Lic # P034416 Expire: 09/04/2024 & John Arellano Lic # 1560

64, Ex: 09/11/2023 Observed certified welders for proper FCAW procedures and techniques. Verified completed welds for proper

Size, Length, Location and profiles. Completed welds were cleaned properly and are acceptable.

G/6 CJP is completed and signed off.

All other work is ongoing.

QUALITY CONTROL CHECKLIST

- ☑ DSA- 5 FORM COMPLETED
- ☑ ON TIME TO JOB
- ☑ CHECKED APPLICATION/FILE NO.
- ☑ REVIEWED APPROVED PLAN
- ☑ REVIEWED SPECIFICATIONS
- ☑ REVIEWED PREVIOUS REPORTS
- ☑ TEST
- ☐ CORR
- ☐ SAMP
- ☐ ALL DEFICIENCIES NOTED
- ☐ OTHER_____

DSA APPROVED DOCUMENTS REFERENCED

THE WORK ☑ WAS ☐ WAS NOT
INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE DSA APPROVED DOCUMENTS

MATERIAL SAMPLING ☐ WAS ☐ WAS NOT ☑ N/A
PERFORMED IN ACCORDANCE WITH THE DSA APPROVED DOCUMENTS

THE WORK INSPECTED ☑ MET ☐ DID NOT MEET
THE REQUIREMENTS OF THE DSA APPROVED DOCUMENTS

SIGNATURE OF SPECIAL INSPECTOR

CWI (SPECIALITY) 20031331 (NO.) AWS (AGENCY)

CONTINUED ON NEXT PAGE ☐ PAGE 1 OF 1

TIME IN	TIME OUT	REG HOURS	O.T. HOURS	SAMPLES
6:30 AM	5:00 PM	8	2	

All inspections based on a minimum of 4 hours and over 4 hours - 8 hours minimum. If the inspector is called to a project and no work is performed a two hour minimum charge will be applied. Please verify Q.C. Checklist.

Approved By: Austen Pell
PROJECT INSPECTOR

Altadena Libraries

REQUEST FOR PROPOSALS
FOR
CONSTRUCTION INSPECTION AND/OR SOILS ENGINEERING SERVICES ON-CALL SERVICES

SUBMISSION FROM
KOURY ENGINEERING & TESTING, INC.

Anthony Fielding
Project Manager
C| 909.636.0920
O| 909.606.6111 x707
E| AnthonyF@KouryEngineering.com

Maqael Knight
Business Development Manager
C| 909.631.6018
O| 909.606.6111 x203
E| MaqaelK@KouryEngineering.com

GEOTECHNICAL ENGINEERING
CONSTRUCTION INSPECTION
MATERIALS TESTING
ENVIRONMENTAL

OFFICE LOCATIONS

ORANGE COUNTY
CORPORATE BRANCH
2992 E. La Palma Avenue
Suite A
Anaheim, CA 92806
Tel: 714.632.2999
Fax: 714.632.2974

SAN DIEGO
IMPERIAL COUNTY
7742 Arjons Drive
San Diego, CA 92126
Tel: 858.537.3999
Fax: 858.537.3990

INLAND EMPIRE
14467 Meridian Parkway
Building 2A
Riverside, CA 92518
Tel: 951.653.4999
Fax: 951.653.4666

OC/LA/INLAND EMPIRE
DISPATCH
800.491.2990

SAN DIEGO DISPATCH
888.844.5060

www.mtglinc.com

February 23, 2024

MTGL Proposal No.: P-24-075

Ms. Jennifer Pearson
Huckabee, Inc.
8640 National Boulevard
Culver City, CA 90232

Subject: **PROPOSAL FOR SOIL, SPECIAL INSPECTION AND MATERIALS TESTING**
Bob Lucas Memorial Branch Library & Literacy Center
Altadena Main Library

Dear Ms. Pearson,

In accordance with your request, MTGL, Inc. (MTGL) is pleased to submit this proposal for professional services at the subject project. We have reviewed the request for qualifications, and addendums I & II for testing and special inspection requirements.

In accordance with the RFQ, MTGL is pleased to submit our qualifications for service. MTGL office and laboratory is at 2992 E. La Palma Ave, Suite A Anaheim, CA 92806. The MTGL service team for this project is defined below;

MTGL Team Member	Position	Team Role
Michelle Eliott	Owner / CEO	Legally Binds Contract
Steven Koch	Project Manager	Contact During Evaluation
Isaac Chun	Geotechnical / Materials Engineer	Responsible Engineer
Saul Cruz	Field Operations Manager	Inspection Supervisor

MTGL is best suited for this program with the small business attitude that each project is an opportunity to provide service. The dispatch department operates with e-mail, text and phone calls for scheduling by the client's designated representative. Should there be a need for immediate inspections, MTGL will provide our first available inspector.

Steven Koch will respond to the request to furnish a estimated budget once the contract documents, the contract's schedule, and soil report are provided for review. Steven Can be reached directly at (760) 420-9200, skoch@mtglinc.com or in the office at (714) 632-2999 X 2114.

For over 30-years, MTGL provided geotechnical and material testing for requirements of the California Building Code and has multi-certified inspectors.

SCOPE OF WORK

MTGL's scope of work for special inspection and materials testing will consist of the following:

- **EARTHWORK OBSERVATION AND TESTING -** MTGL's proposed scope of work for providing earthwork observation and soils compaction testing will consist of the following:
    - Review of Soils Report(s) by our Geotechnical Engineer and preparation of a transfer of geotechnical engineer letter. Additional and/or supplemental recommendations may be required upon completion of the review and will be provided, as necessary.
    - Participation in a pre-grade meeting.
    - Observation of earthwork operations and performing relative compaction testing on fill materials.
    - Performing necessary laboratory tests to evaluate conformance of the soils and aggregate base materials.
    - Observation of footing excavations for structural improvements.
    - Performing relative compaction testing of utility trench backfills, and on-site street improvements.
    - Performing necessary laboratory tests to evaluate conformance of the soils and aggregate base materials.

- **ASPHALT LAYDOWN INSPECTION AND TESTING** - MTGL's proposed scope of work for asphalt laydown inspection and testing will consist of the following. Asphalt inspections and testing will be performed in general conformance to the latest Standard Specifications for Public Works Construction (Greenbook).
    - Asphaltic Concrete Laydown Inspection - Our services will consist of providing inspection and quality control during the laydown operation for conformance to the job specifications. The laydown inspection will consist of monitoring the temperature and rolling procedure for the in-place density of asphaltic concrete by nuclear method. The quality control will consist of asphaltic concrete maximum density testing for conformance to the job specification. A written report will be provided at the completion of the work.
    - Laboratory Testing of Asphaltic Concrete - Our services will consist of materials testing of asphaltic concrete. Services will include Hveem stabilometer, sieve analysis and extraction tests of asphaltic pavement. Tests will be performed on materials sampled at random locations and at frequencies based on the project specifications. A written report will be provided at the completion of the work.
    - A written report summarizing the results of all tests performed will be prepared upon completion of the work. The report will not contain a rendering, opinion, certificate, or warranty, of the compaction or the materials tested.

- **REINFORCED CONCRETE INSPECTION** - Our services will consist of providing an ICC certified concrete inspector who will inspect the placement of steel/tendons before the placement of concrete. He will also inspect the placement and sample the concrete as required per the project plans and specifications. Field testing of concrete will consist of slump and temperature. Samples will be fabricated and transported to our laboratory for compressive strength testing at the rate of one set of four concrete test cylinders per every 150 cubic yards.

- **LABORATORY TESTING OF CONCRETE SPECIMENS** - Test cylinders would be cured in our laboratory in accordance with ASTM C192. Compression tests would be performed in accordance with ASTM C39 at 7 and 28 days, respectively. Copies of the results of all compression tests will be provided upon completion of the test.

- **LABORATORY TESTING OF REINFORCING STEEL BARS** - Samples of the reinforcing steel to be used for production of concrete would be tested in accordance with ASTM A615, and/or A706 test methods. Written reports of all tests presenting applicable information would be prepared at the completion of testing.

- **STRUCTURAL MASONRY INSPECTION** – A certified Masonry inspector will be provided to inspect masonry construction at the start of laying units, after placement of reinforcing steel, to inspect grout spaces prior to each grouting operation, and during all grouting operations.

- **LABORATORY TESTING OF MORTAR AND GROUT SAMPLES** - Fabrication and transport to our laboratory for testing of one test sample of grout on three successive working days and at one-week intervals thereafter will be provided. In addition, one test sample of mortar on three successive working days and at one-week intervals thereafter will also be provided, as necessary.

- **LABORATORY TESTING OF MASONRY PRISMS** - Fabrication and transport and test one set of five masonry prisms prior to the start of construction and one set of three masonry prisms for each 5,000 SF of wall area during construction will be provided.

- **LABORATORY TESTING OF MASONRY UNITS** - Sample, transport and test six masonry units for each type of masonry block. Three units will be tested for absorption and three units for compression.

- **SHOTCRETE INSPECTION AND TESTING** – An approved special inspector would be provided to inspect shotcrete during placement and to sample test panels as required. Fabrication and transporting to our laboratory for compressive strength testing of one shotcrete panel for every 50 cubic yards of shotcrete wall will also be provided.

- **STRUCTURAL FIELD WELDING** – Special inspection during construction by a special inspector certified by the ICC and County of Los Angeles during field welding for compliance with the approved plans and specifications. The inspector will make a systematic record of all welds, including a list of defective welds and a manner of correction of defects. The inspector would check the material, equipment, details of construction and procedures, as well as the welds.

- **STRUCTURAL STEEL SHOP FABRICATION INSPECTION** – Special inspection by an inspector certified by ICC and County of Los Angeles during shop fabrication of structural steel. The inspector will make a systematic record of all welds, including a list of defective welds and a manner of correction of defects. The inspector would check the material, equipment, details of construction and procedures, as well as the welds.
- **HIGH STRENGTH BOLTING INSPECTION** – We will provide a certified bolting inspector to verify faying surfaces and a snug tight fit and/or proper torque as required per the project plans and specifications.
- **DRILLED AND/OR EPOXY ADHESIVE ANCHORS INSPECTION** – Our special inspector will inspect anchors during installation for conformance with the approved plans and specifications.
- **POST-INSTALLED ANCHOR TESTING** – Our certified technician will perform pull and/or torque testing of post-installed anchors to verify conformance with the approved plans and specifications.
- **FIRE PROOFING INSPECTION** – A certified special inspector will provide periodic inspection of application and thickness. Our laboratory will perform density tests on the fireproofing samples.
- **SHEAR WALL INSPECTION** – A certified special inspector will provide periodic inspection during nailing, bolting, anchoring and other fastening of wood shear walls with fastener spacing less than or equal to 4-inches on center.

Special inspectors and/or technicians will provide daily field reports describing the work observed and stating compliance or non-compliance with the project documents.

Laboratory test reports will be prepared by our laboratory manager, reviewed by an engineer or geologist, and distributed to the designated persons. Failing test results will be reported to the designated person(s) on the day of the test.

Project supervision will be provided by our experienced Field Supervisor and a Registered Civil Engineer (RCE) during construction. Duties will include reviewing special inspection reports, test results, and attendance at site meetings as required.

A final report of special inspections and materials testing will be prepared by an engineer that consists of a summary of the project special inspections and tests performed by MTGL.

Invoices for our services will be rendered at the completion of the work and upon completion of the report. Monthly invoices will be accompanied by back-up of the daily reports with a verification of hours and copies of laboratory testing performed for the construction materials. A running balance of the contract will b e provided for tracking of the proposed budget.

The unit costs shown are based upon work taking place between the normal business hours (7:00 a.m. to 5:00 p.m.) Monday through Friday, excluding nationally recognized holidays. Work performed on a Saturday or more than 8 hours on a given day will be invoiced at 1.5 times the standard rate. Work performed on Sunday or nationally recognized holidays will be invoiced at 2 times the standard rate. All unscheduled cancellations will be invoiced a minimum of 2 hours. All other terms and conditions shall be per our standard Schedule of Fees.

Our services will consist of inspection and materials testing only on an on-call and as-directed basis. The presence of our field representative will be for the purpose of observing the construction and reporting its general compliance with the approved plans and the applicable building codes. Our work does not include the supervision or direction of the contractor's work, it's employees or agents. The contractor is responsible for their services, and neither the presence of our field personnel nor the observation and testing by this firm should excuse the contractor in any way for defects in their work. It should further be understood that we are not responsible for site safety. No warranty whatsoever, expressed or implied, is made or intended by MTGL, its employees or agents, in connection with the services provided under this Agreement.

CLOSURE

MTGL does not guarantee the performance of the contractor(s) by performing these services. MTGL's performance of these services shall not relieve the contractor(s) of their obligation to perform the work in conformance with the drawings and specifications and in a workmanlike manner; shall not make MTGL an insurer of the contractor's performance; and shall not impose on MTGL any obligation to see that the work is performed in a safe manner.

Thank you for the opportunity to submit this proposal. This proposal will be valid for 90 calendar days. We look forward to working with you on this project and can begin our work upon receipt of your notice to proceed and receipt of a signed copy of this proposal. If you have questions regarding this proposal, please contact me at (714) 632-2999 X 2114 or skoch@mtglinc.com.

Respectfully Submitted,
MTGL, Inc.

Steven Koch
Senior Vice President

Attachments: Schedule of Fees, Basis of Charges

Geotechnical Engineering | Construction Inspection | Materials Testing | Environmental

ISAAC CHUN, P.E., G.E.
Geotechnical and Material Engineer

EXPERIENCE

Years of Experience: 30
Years with MTGL: 11

Isaac Chun is a Materials Engineer and Geotechnical Engineer with over 30 years of experience in the materials testing, construction inspection, and geotechnical engineering industry. He has been providing a variety of quality assurance/control services for numerous infrastructure projects that include buildings, bridges, light rail transit, airports, railroad projects, roads and highways.

Isaac prepares Geotechnical investigations for design and foundations. Numerous Geotechnical investigations have been provided to CGS for approval. the California Geotechnical Survey is responsible for review of geotechnical reports in school-house and state design.

His expertise in the materials testing and inspection extends to testing/characterization of materials following nationally recognized methods of analysis and testing procedures published by ASTM, AASHTO and Caltrans. He has devised custom testing programs for validation/verification of materials in accordance with performance testing criteria established by a variety of public agencies. His work in materials and testing extends to materials evaluation of structural materials, design/characterization of materials, non-destructive methods of examination, field "mock-up" construction evaluation, destructive testing, materials suitability analysis, and many more services.

Mr. Chun has also held the positions of Quality Control and Field Engineer. He has managed numerous infrastructure projects for various City, State and Federal governmental agencies. He has expert knowledge of construction processes and specialty construction techniques, specialty methods of inspection, data intensive methods of materials characterization, statistical methods of performance evaluation, and many more evaluation/ characterization services.

Education: B.S. Civil Engineering, California State Polytechnic University, Pomona

Licenses/Certifications: State of California Registered Civil Engineer, RCE #59431
State of California Registered Geotechnical Engineer, GE #2649

SAUL CRUZ

Field Supervisor | DSA Project Inspector Class 2 | Special Inspector

EXPERIENCE

Years of Experience: 12

Years with MTGL: 07

EDUCATION

- Riverside Community College, Riverside, CA

LICENSES/CERTIFICATIONS

- DSA (Masonry #6023, Shotcrete #6176, Project Inspector Class 2 #6228)
- AWS #16060251(CWI)
- ASNT Course #103A Ultrasonics 1
- ICC #8112015 (Structural Steel and Bolting, Structural Welding, Structural Masonry, Spray-applied Fireproofing, Reinforced Concrete, Prestressed Concrete, California Commercial Mechanical, Master of Special Inspection)
- California DSA Shotcrete
- ACI #1322996 (Concrete Field-Testing Grade I, Adhesive Anchor Installation, Masonry Field-Testing)
- PCI Quality Control Personnel Certification Technician (Level I #17141, Level II #17142)
- City of Los Angeles #P038816 (Steel)
- Face F-Number Measurement
- IFC Firestop Special Inspection (ICC Course 10472)
- IFC Hands-on Multi-manufacture 4+ Firestop Product Training (ICC Course 12429)
- APNGA Radiation Safety Officer.
- APNGA Portable Nuclear Gauge Safety and USDOT Hazmat (Hazmat Refresher Training)
- USDOT Hazmat Certification Refresher Training for Portable Nuclear Gauges
- Fiber Reinforced Polymer (FRP) Strengthening Inspector

Saul is a multi-certified Field Supervisor with extensive experience with structural steel, source inspection, fabrication, mechanical splicing, structural connections, and other materials fabrication inspection.

He holds certifications in a wide range of construction-related inspection categories. His diverse experience includes various fabrication methods across different structural types, including but not limited to MSE Walls, Steel Frames for Towers and Bridge Formwork, Reinforced Concrete Elements, Mechanical Vessels, Earth Retaining Structures, Drainage Facilities, as well as Pipes and other hollow structural sections.

Saul also serves as Assistant Safety Manager. His responsibilities include but are not limited to ensuring compliance with applicable federal, state, and local regulations about health, safety, and environmental issues.

RELEVANT PROJECT EXPERIENCE

CITY OF FULLERTON 303 W. Commonwealth Avenue Fullerton, CA 92832	**On-Call Professional Engineering Services – Geotechnical Engineering and Material Testing** Fullerton, CA Saul was the Field Supervisor and was responsible for supporting inspectors and technicians. The scope of work included soils investigation, preparation of Geotechnical Engineering reports and studies such as pavement design, grading requirements, retaining wall parameters, and slope stability analysis. Testing services involved field compaction and lab testing of soils, aggregates, and inspection of asphalt and concrete.
CITY OF MANHATTAN BEACH 2621 Bell Avenue Manhattan Beach, CA 90206	**Traffic Signal Modification -Sepulveda Boulevard and 8th Street** Manhattan Beach, CA Saul was the Field Supervisor and was responsible for supporting inspectors and technicians. The scope of work included providing roadway material testing, including cross gutters, plant inspection, and laboratory testing services, including appurtenant structures, flatwork, and signal foundations.
CITY OF VERNON 4305 S Santa Fe Avenue Vernon, CA 90058	**Reconstruction at Fire Stations 76 and 78** 910 Richland Road, San Marcos, CA 92069 Saul was the Field Supervisor for the PCC and asphalt pavement reconstruction project for Fire Stations 76 and 78. His primary responsibilities involved overseeing personnel to ensure the construction codes were being enforced.
CITY OF RIVERSIDE 3750 University Ave., 4th Floor Riverside, California 92501	**Harvey Lynn Substation Site Expansion** Riverside, CA. Saul was the Field Supervisor and Special Inspector during construction testing and inspection services. Services included soils, concrete, and masonry. The project entailed relocating security equipment and demolishing and removing existing block walls, gates, and underground structures. The project also included the installation of reinforced masonry black walls and two driveways with motorized rolling gates.

SHELDON COLE
SPECIAL INSPECTOR

EXPERIENCE

Years of Experience: 36

Years with MTGL: 03

LICENSES/CERTIFICATIONS

- ACI 00025594
- ICC 1126426
  Concrete, Masonry, Fireproofing, Welding, Bolting, Commercial Building
- AWS 09041251
- DSA Masonry 5280

Sheldon began his professional career in 1987 as a mason, immersing himself in the intricacies of construction. Originating in North Carolina, he honed his skills while contributing to projects spanning residential, commercial, and healthcare sectors. This initial phase laid the foundation for his unwavering commitment to precision and quality craftsmanship.

In 1999, Sheldon transitioned into a Special Inspector. Armed with a keen eye for detail, he obtained licenses and approvals across multiple cities and counties in Southern CA. His meticulous observations at work sites became a cornerstone in upholding compliance with stringent codes, exemplifying his dedication to safety and industry standards.

Sheldon's proficiency extends beyond the technical realm, as his strong communication skills facilitate effective collaboration with colleagues and clients.

A perpetual learner, Sheldon actively engages in ongoing inspection field training. This commitment to staying current with evolving practices underscores his drive for continuous improvement and growth within the construction domain.

LOUIS BARRAZA
WELDING / ULTRASONIC INSPECTOR

EXPERIENCE

Years of Experience: 14

Years with MTGL: 10

LICENSES/CERTIFICATIONS

- American Welding Society (AWS)
- International Code Council (ICC) #5271759
  Structural Welding, Structural Steel, and Bolting

Louis has been in the industry for 14 years as an Ultrasonic Testing/Magnetic Particle Testing (UT/MT) and Visual Inspector for various public works, water districts, and agency projects. He is certified in wide-ranging welding inspection categories, and his experience is varied among multiple construction methods and fabrication processes. Louis conducts non-destructive testing (NDT) for the soundness of welds in complete joint penetrations. This involves testing for cracks and defects on fillet welds with magnetic particle testing and visually inspecting for surface discontinuities for acceptance and rejection by using gauges to measure the thickness and calibrated equipment for correct parameters outlined in welding procedures.

He has knowledge of compliance with all applicable standard codes, project plans, and specifications. He brings excellent documentation skills and an aptitude for expeditiously identifying construction difficulties and resolving issues. Louis's skills, diligence, and dedication make him a great addition to any project team.

JOHN CRUZ
SPECIAL INSPECTOR

EXPERIENCE

Years of Experience: 07

Years with MTGL: 04

LICENSES/CERTIFICATIONS

- ACI 01310147
  Concrete Field-Testing
- ASNT SNT-TC-1A/CP-189
  Ultrasonic Testing Levels I & II
- AWS/CWI 16011021
- ICC 8068360
  Structural Masonry, Spray-Applied Fireproofing, Structural Steel & Bolting, Reinforced Concrete, C.A. Commercial Building, Master of Special Inspection, and Structural Welding

John Cruz has over seven (7) years of experience as a Special Inspector and Field Technician specializing in welding in the construction industry. He has extensive knowledge of the welding process, non-destructive, and quality control. He is knowledgeable of all relevant standard compliance and code requirements.

He is proficient in setting up and operating various welding processes, including GTAW, GMAW, SAW, and materials welded, including carbon steel, Austenitic stainless steel 304, 308, 314, and Duplex SS. John has construction and shop experience within the process inspection of fit-up and welding, testing and qualification of welders following ASME Section IX and AWS D1.1, maintenance of job travelers, verification of code compliance of non-destructive testing, and other duties related to boilers and pressure vessels and repair.

John has provided concrete, reinforcing steel, anchor pull, and torque testing for Community College and K-12 projects under the Department of the State Architect, reinforcing steel, and tagging of materials to comply with DSA IR 17-10. His testing and source inspection have included rock quarries, concrete plants, asphalt plants, rebar splice coupling facilities, and precast concrete plants. His materials sampling and field-testing oversight experience include structure backfill materials, mechanical rebar couplers, asphalt concrete, and reinforced concrete.

PAUL THUMMEL
SPECIAL INSPECTOR

EXPERIENCE

Years of Experience: 14

Years with MTGL: 09

LICENSES/CERTIFICATIONS

- ACI #01638963
  Concrete Field- Testing Grade
- ICC #8956940
  Reinforced Concrete, Structural Masonry, Structural Steel and Bolting, Structural Welding, Spray-applied Fireproofing

With years of experience as a Special Inspector within the construction sector, Paul possesses a wealth of knowledge. His responsibilities encompass conducting scheduled and ongoing special inspections to ensure strict adherence to construction blueprints and pertinent code stipulations.

Paul's proficiency is underscored by his exceptional documentation capabilities, complemented by a knack for swiftly identifying construction challenges early and devising solutions. Over time, his hands-on involvement has facilitated the honing of proactive project management skills, a testament to his professionalism.

A standout attribute of Paul lies in his communication, coupled with his commitment and dedication. These qualities collectively position him as an asset, poised to enhance any project team's efficacy and success.

DEREK TIPPS
FIELD TECHNICIAN

EXPERIENCE

Years of Experience: 24

Years with MTGL: 24

LICENSES/CERTIFICATIONS

- ACI *Field-Testing Grade I*
- Caltrans Certified
  CTM 105, 125AGG, 201, 202, 205, 216, 217, 226, 504, 518, 521, 539, 540, 543, 556, & 557
- CPN Nuclear Gauge Safety
- FACE Floor Flatness & Levelness Testing
- International Code Council (ICC) Soils

Derek has performed Material Testing and Inspection in the construction industry since 1999. His experience extends to wastewater, dams and pipelines, water treatment plants, bridges, tunnels, airports, highways, channels, wastewater facilities, roads, rail (heavy and light), and various other vertical and horizontal construction projects.

He is proficient in mass-grading observation and testing, identification of formational materials, soil classification, AC placement, Marshall, Maximum Density, Batch Plant Inspection, pull and torque testing of anchor bolts and ceiling wires. He performs laboratory testing on soils and compressive strength testing of structural materials.

Derek has knowledge of compliance with DSA Title 24, all other applicable standard codes, and project plans and specifications. His unique experience gives him a deep understanding of the construction process from beginning to project completion. He has excellent documentation skills and communication.

LEONARD PEREZ
SPECIAL INSPECTOR

EXPERIENCE

Years of Experience: 15

Years with MTGL: 08

LICENSES/CERTIFICATIONS

- ACI 01089150
  Concrete Field-Testing Grade I
- County of Los Angeles 01895
  Concrete, Welding
- ICC 5307198
  Prestressed Concrete, Structural Welding, Structural Steel and Bolting, Reinforced Concrete, Structural Masonry, Master of Special Inspection

Leonard has over 15 years of experience as a Special Inspector and Field Technician in the construction industry. He has worked on numerous projects ranging from public schools to commercial, industrial, military, public works, and private sector projects.

He is experienced in performing extensive concrete placement inspection and testing, inspections of large foundation units, inspections of multi-level concrete masonry unit elements, placement of grout for masonry and column base plats, post-tension concrete, installation of anchors, slabs of metal decks, concrete walls, high-life grout placement, multi=story concrete buildings, multi-level parking structures, coasting, crack sealing, concrete, seismic upgrades, foundation underpinning, fiber concrete, high-early concrete.

Geotechnical Engineering | Construction Inspection | Materials Testing | Environmental

CHRISTOPHER BUNKER
Special Inspector/Field Technician

EXPERIENCE

Years of Experience: 16
Years with MTGL: 12

Christopher Bunker has 15 years of experience as a Special Inspector and Field Technician in the construction industry. He is certified with ICC, ACI, DSA, Caltrans and Nuclear Gauge Safety. He has an extensive working on public and private sectors projects ranging from small to large facilities such in airports, municipalities, agencies, highways, school districts, hospitals and commercials. He has knowledge in the governing building code, all applicable standard codes and regulations as well as in compliance of DSA Title 24 compliance with construction documents. He has an excellent documentation skills and communication.

Christopher is experienced in multiple aspects of performing mechanical, electrical, and plumbing (MEP) inspection as the Assistant Building Inspector for the California State University, San Bernardino – Student Housing and Dining Project from February 2017 through May 2018; and provided many services for Proposition 39 – Solar Projects for school construction included caissons and piers which are similar foundation to this project.

Due to his vast certifications, he provides consistency in section, communication while observing multiple trades concurrently. He has been in essential part of project closeout assuming "Red Lines" are maintained for the "As-Built" during construction. *He is a proven material tester and pull tester on rebar, all threaded anchors and miscellaneous items that require tensile testing, and additionally he is qualified for material sampling which include soils, concrete, rebar, concrete block and other miscellaneous items.*

LICENSES /CERTIFICATIONS

DSA (Shotcrete #6316); ICC #1091733 (Soil, Reinforced Concrete, Prestressed Concrete, Structural Masonry, Spray-applied Fireproofing, Commercial Building); ACI #00040566 (Grade I, Adhesive Anchor Installation, Masonry Field-Testing); Caltrans Certified (CT 125AGG, 125GEN, 125HMA, 231, 375, 504, 518, 539, 540, 543, 556, 557); CPN Nuclear Gauge Safety.

COLTON SENGER
Field Technician

EXPERIENCE

Years of Experience: 05
Years with MTGL: 05

LICENSES/CERTIFICATIONS

- ACI
  Concrete Field-Testing Grade I
- Caltrans
  CT 105, 125AGG, 201, 202, 205, 2016, 217, 226, 227, 229
- FACE F-Number Measurement using Dipstick Floor Profiler

Colton possesses extensive experience of over (5) years in the construction industry. His expertise lies in testing and inspection across various areas, including concrete, soil, concrete masonry units, reinforcing steel, fireproofing, and aggregates. Colton's knowledge encompasses the standard test methods of reputable organizations such as ASTM, AASHTO, and Caltrans.

Having a profound understanding of compliance and code requirements, Colton ensures that the project is aligned with the applicable standards. He excels in documenting project details with precision and proficiency. Additionally, Colton demonstrates a remarkable ability to identify construction challenges early on, promptly resolving issues to maintain project timelines.

Colton's proactive approach and dedication are evident throughout his career. He possesses the skills necessary to work efficiently on any project, consistently delivering high-quality results. His exceptional communication skills foster effective collaboration within project teams, further contributing to project success.

PROJECT PROFILE

CORONA HIGH SCHOOL LIBRARY AND ASB ENHANCEMENT

Corona, California

CLIENT:
Corona-Norco Unified School District

CLIENT CONTACT:
Phil Cremo, Project Inspector
(909) 641-0376

Jacquelyn Roberts, E.I.T.
(951)736-5050
jacquelyn.roberts@cnusd.k12.ca.us

DSA No.:
04-121004

PROJECT LOCATION:
1150 W 10th Street
Corona, CA 92882

START:
December 2022

COMPLETED:
January 2023

The project at Corona High School involved modifications to Building D, which accommodates the library and Associated Student Body (ASB) facilities. Additionally, enhancements were implemented for parking lots B and C.

MTGL, Inc. performed this project's soils, construction materials, and special inspection services. The scope of work included the inspection of structural steel.

PROJECT PROFILE

GARFIELD ELEMENTARY SCHOOL MODERNIZATION

Santa Ana, California

CLIENT:
Santa Ana Unified School District

CLIENT CONTACT:
Chris Bailey, Project Inspector
(760) 927-6264

DSA No.:
04-116551

CONSTRUCTION COST:
$9.7M

START:
July 2022

COMPLETED:
April 2023

The Garfield Elementary School modernization initiative represents a multifaceted effort to enhance the school's educational infrastructure. A pivotal facet of this project entails the transformation of the library space, where interior modifications will give rise to a cutting-edge STEAM lab. This innovative lab will provide students a dynamic environment for exploring science, technology, engineering, and the arts. Equipped with state-of-the-art technology and adaptable workspaces, it's poised to ignite curiosity and foster collaborative learning, positioning students at the forefront of intellectual exploration.

Additionally, the project involves a range of supplementary enhancements, including upgrades to the HVAC and plumbing systems, the construction of a new lunch shelter, library, and improvements to lighting and electrical systems, and refinements to doors and finishes.

MTGL, Inc. provided geotechnical investigation, including welding, fireproofing, torque, masonry rebar sampling, soils, and pull testing.

PROJECT PROFILE

EDISON LANGUAGE ACADEMY

Santa Monica, California

CLIENT:
Santa Monica-Malibu Unified School District c/o Parsons/CCM

CLIENT CONTACT:
Matt Rafie, IOR
(310) 980-2217
matt@ici-inspection.com

PROJECT LOCATION: 2402 Virginia Ave Santa Monica, CA 90404

DSA No.:
03-112999

CONSTRUCTION COST:
$34M

START:
September 2019

COMPLETED:
October 2021

MTGL, Inc. provided geotechnical investigations, materials testing, and inspection services for the project. Using the Measure BB funds, all facilities were replaced with an entirely new campus. The changes included 27 kindergartens through fifth-grade classrooms, two (2) preschool classrooms, a new library, and a cafeteria.

The school is organized around small and large courtyards that can be used as teaching spaces, community gatherings, performances, and stack time areas. The academic courtyard is the largest of these open spaces and is flanked by two (2) levels of classrooms connected by a series of bridges and landscaped platforms.

A CALIFORNIA PUBLIC CHARTER SCHOOL

Vaughn Next Century Learning Center
13330 Vaughn Street, San Fernando, California 91340
Telephone (818) 896-7461
Fax: (818) 834-9036 website: www.myvaughncharter.com

To whom it may concern:

MTGL provided soil and materials testing and inspections to our new school facilities projects since 2005. It has been our partner for eleven (11) projects. Most of the projects were state-funded (Prop 55, Prop 1D and Qualified Zone Academy Bonds). Two (2) of the projects were LAUSD Augmentation Grant projects. Thus MTGL has experience in grant-funded public work projects, especially the inner working of LAUSD.

Services were supplied as requested by our Project Inspector (including LAUSD-assigned inspectors) and met the requirements of DSA. The firm also worked with our proposed budget sending us cross trained inspectors to limit the hours needed for contract compliance. MTGL's accountants helped me track costs for alternates that we added and provided me a running total of budget verses actual dollars spent each month.

MTGL's last project for the P3 was our second project under the Project labor Agreement with LAUSD. The additional requirements required by LAUSD were met providing a certified project. Steven Kock and the MTGL staff have provided inspections for Soil, Asphalt, Concrete, Masonry, Structural Steel Welding, and Fireproof Special Inspections.

We are extremely pleased with the past work of MTGL and continue to utilize their company. They are quick to respond to our needs. Their price is most reasonable. Their staff maintains good communication with all parties involved. I highly recommend this company for your project.

Sincerely,

Dr. Yvonne Chan

Founding Principal

Sandy Pringle Associates, Inc.
1108 Sartori Ave., Suite 300
Torrance, California 90501
Tel: (310) 787-8811
Fax: (310) 787-8833

To whom it may concern,

I have worked with MTGL for the last 4 years and do not hesitate and enthusiastically recommend them for Testing and Special Inspections Services.

As the Lead Project Inspector for Manhattan Beach Unified SD, I am providing this letter of reference for MTGL.

MTGL has provided soil and materials testing and inspections to the Manhattan Beach Unified School District for the new Mira Costa HS Athletic Complex, and Modernizations projects at Grandview, Meadows and Robinson Elementary Schools.

Due to the approach to service and abilities to maintain the proposed budgets, MTGL has been assigned modernization projects for 2021-2022 at Pennekamp and Manhattan Beach Preschool. Services were supplied as requested and met the requirements of DSA with emphasis on customer service. MTGL provided cross trained inspectors to limit the hours needed for contract compliance. MTGL's accountants tracked costs throughout the projects with a running total of budget verses actual dollars spent each month.

I am pleased with the past work of MTGL and continue to utilize their company. A District is well served who can employ MTGL for services.

Sincerely,

Gary Voigtsberger

Gary Voigtsberger

Senior Project Inspector

BPI INSPECTION SERVICE

Re: LETTER OF RECOMMENDATION – DSA TESTING & INSPECTION VARIOUS PROJECTS

To Whom it May Concern:

Over the past several years we have found MTGL's project staff to be a great asset to the project team. MTGL's field representatives have always been very knowledgeable, professional and eager to ensure the best interest of the school district is the # 1 priority at all times.

MTGL Project Manager Steven Koch have demonstrated willingness to go the extra mile to assist the project in any way possible. They have also provided knowledge and understanding that has been useful in servicing the quality control needs of a DSA project. These qualities have allowed them to provide excellent coordination & continuity of staff, as well as develop a great working relationship with all members of the primary project team.

BPI has also worked with MTGL, as well as many other testing laboratories, on multiple other DSA projects throughout Southern California over the past 15 years. The service provided by MTGL far surpasses that of their many competitors. The excellent experiences we have come to know as standard practice when dealing with MTGL & it's representatives would lead us to recommend them to any district seeking a dependable & high quality testing & inspection firm.

Very truly yours,

Bob Payinda, President
BPI Inspection Service

410 North Croft Avenue, Los Angeles, CA 90048 (323) 653-7843 FAX (888) 831-0441

Roule CONSTRUCTION

To whom it may concern:

MTGL has provided materials testing and inspections to district projects. Over the past 7 years. Services were supplied as requested and met the requirements of DSA with emphasis on customer service. The firm also worked with our proposed budget sending us cross trained inspectors to limit the hours needed for contract compliance. MTGL's accountants helped me track costs for alternates that we added and provided me a running total of budget verses actual dollars spent each month.

Steven and the MTGL staff have provided inspections for Concrete, Masonry, Structural Steel Welding, fabrication and fireproofing.

I am pleased with the past work of MTGL and continue to utilize their company.

Sincerely,

Jeffery Roule

President, Roule Construction

14241 Vai Brothers Drive Rancho Cucamonga, CA. 91739 Tel: (909)730-5208

Gregory J. Smith LLC
Construction Inspection Services

5511 Maryland Ave.
La Mesa, CA 91942
C: (619) 697-1475
n6nyx@hotmail.com

11-22-2023

SUBJECT: MTGL Services

One of my roles as a DSA Class 1 inspector is to oversee and coordinate all activities of the testing & inspection agency assigned to the project. I am currently working with MTGL on the Southwestern College – Student Union project, a $68.5M reinforced concrete two-story structure with post-tensioned beams and a structural steel roof.

1) **Project Management:** Steven Koch sets the initial budget for my project through the Southwestern Community College District in his proposal for testing & inspection services to the School District. He coordinates with the District Facilities Design & Construction Manager for overall contract scope, to be sure there are no outstanding conformance issues during construction. Steve also provides monthly budget reviews and provides additional services on an as-needed basis. Steve is instrumental in cost & schedule control of all MTGL services.
2) **Dispatch**: The dispatcher at MTGL knows every service and test that my project needs, whether on-site or offsite. Dispatch always places the appropriately certified and experienced personnel where I need them, whether local or regional. I can phone in requests or email them. I always get confirmation of the service order a day prior to needing those services.
3) **Laboratory Testing**: The lab manager immediately informs me of any tests that do not meet specified requirements, whether it is for construction materials testing or geotechnical services. Laboratory testing services are done per ASTM standards without deviations.
4) **Technical Personnel:** They are on-time, as scheduled, and their qualifications and experience match those that my projects need. I observe their work onsite as part of my duties. MTGL uses only experienced technicians and inspectors that are properly qualified to perform all work. Their reports are transmitted to me the same-day, most of the time, but never less than 24 hours later. Any test or inspection results that do not pass specified requirements are reported immediately.
5) **Professional Personnel:** These are the geotechnical engineers assigned to my project. They take no exceptions to adopting soils reports done by other firms, if that is a project requirement. They perform their jobs to the soils report in all respects
6) **Morale:** The people at MTGL really like what they do, and it shows in their work ethic and final product.

In summary, the testing, inspection and geotechnical engineering services I request through the MTGL dispatcher are performed as-requested with minimal oversight on my part, largely due to the superior management skills of Steven Koch and his well-organized team.

I look forward to many more projects with MTGL as the testing and inspection agency of record.

Gregory J. Smith, Manager

Gregory J. Smith, LLC

MTGL, Inc. Anaheim, California

View Accreditation Certificate
http://www.mtglinc.com

Quality Management System - accredited since 1/10/2011
R18, ISO/IEC 17025, C1077 (Aggregate), C1077 (Concrete), C1093 (Masonry), D3666 (Aggregate), D3666 (Asphalt Mixture), D3740 (Soil), E329 (Aggregate), E329 (Asphalt Mixture), E329 (Concrete), E329 (Masonry), E329 (Soil)

Asphalt Mixture - accredited since 10/22/2003
R47, R68, T30, T166, T168, T209, T245, T246, T247, T269, T275, T308, T329, T355, D979, D1188, D1560 (Stability), D1561, D2041, D2726, D2950, D3203, D3549, D5444, D6307, D6926, D6927

Soil - accredited since 10/22/2003
R58, T89, T90, T99, T180, T190, T191, T265, T310, D421, D698, D1140, D1556, D1557, D2216, D2487, D2844, D4318, D4718, D4829, D6938

Aggregate - accredited since 2/15/2001
R76, R90, T11, T19, T21, T27, T84, T85, T112, T176, T210, T255, T304, T335, C29, C40, C117, C127, C128, C136, C142, C566, C702, C1252, D75, D2419, D3744, D4791, D5821

Sprayed Fire-Resistive Material - accredited since 5/11/2017 E605

Concrete - accredited since 11/20/2003
M201, R39, R60, T22, T23, T97, T119, T121, T152, T196, T231 (7000 psi and below), T309, C31, C39, C78, C138, C143, C172, C173, C192, C231, C511, C617 (7000 psi and below), C1064, C1231 (7000 psi and below)

Masonry - accredited since 5/1/2006
T32 / C67 (Brick: Absorption)
T32 / C67 (Brick: Capping)
T32 / C67 (Brick: Compressive Strength)
T32 / C67 (Brick: Measurement)
T32 / C67 (Brick: Specimen Preparation)
M201 / C511 (Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes)
C140 (Concrete Masonry Units) (Sampling and Testing Concrete Masonry Units and Related Units)
C1019 (Sampling and Testing Grout)
C1314 (Compressive Strength of Masonry Prisms)
C1552 (Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing)

Iron and Steel - accredited since 10/10/2008
M31-T244 / A615-A370 (Carbon-Steel Bars, Deformed and Plain: Tension (Elongation))
M31-T244 / A615-A370 (Carbon-Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength))
M31-T244 / A615-A370 (Carbon-Steel Bars, Deformed and Plain: Tension (Yield Strength))
M31-T285 / A615-E290 (Carbon-Steel Bars, Deformed and Plain: Bend Test)
A706-A370 (Low Alloy Steel Bars, Deformed and Plain: Tension (Elongation))
A706-A370 (Low Alloy Steel Bars, Deformed and Plain: Tension (Ultimate Tensile Strength))
A706-A370 (Low Alloy Steel Bars, Deformed and Plain: Tension (Yield Strength))
A706-E290 (Low Alloy Steel Bars, Deformed and Plain: Bend Test)
F3125 (Externally Threaded Fasteners (Bolts): Rotational Capacity)

Please note that our accreditations do not include an expiration date. An accreditation only expires when the laboratory fails to comply with our accreditation requirements.

TESTING SERVICES ACCEPTED		INSPECTION SERVICES ACCEPTED
Earthwork/Lab	Earthwork/Field	Earthwork
☒ Soil	☒ Soil Compaction	☒ Fill Placement
☒ Aggregate		☒ Foundation
☒ Asphalt Concrete		☒ Caissons/Piles
Reinforcing Steel		Reinforcing Steel
☒ Re-Bar Tension and Bend		☒ Welding
☐ Multi-Wire Strand		
☐ Chemical Analysis		Concrete
		☒ Batch Plant
Concrete		☒ Re-Bar and Concrete Sampling
☒ Making / Curing Specimens		☒ Pre-Stressed Concrete
☒ Drilled Cores / Beams		☐ Shotcrete
☒ Compressive Strength		☐ Fiber Reinforced Concrete
☒ Length Change		☐ Epoxy injection
☒ Flexural Strength		☒ Reinforced Gypsum
☒ Lightweight Concrete		☒ Post Installed Anchors
☒ Mix Design Review		
☒ Splitting Tensile		Masonry
Post Installed Anchors		☒ Batch Plant
☒ Torque	☒ Proof Load	☒ Masonry Placement
		☒ Post Installed Anchors
Masonry		
☒ Making / Curing Specimens		Structural Metals
☒ Grout Compressive Strength		☒ Welding
☒ Prism Compressive Strength		☒ High Strength Bolting
☒ Unit Compr. Strength	☒ Absorption	☒ Spray-Applied Fireproofing
☒ Dimensions	☒ Masonry Shear	
☐ Drying Shrinkage		
		Other Inspection Services:
Metals/Lab	Metals/Field-N.D.T	
Structural Steel	☐ Liquid Penetrant	
☒ Tension	☒ Magnetic Particle	
☒ Bend	☒ Ultrasonic	
☒ Density of SFRM		
High Strength Bolt	☐ Radiographic	
☐ Tension		Other Tests:
☐ Hardness		
☐ Charpy V - Notch		
Roofing		
☒ Tiles	☐ Built-Up	

Approved by: Eric H. France Date: December 10, 2020

Division of the State Architect LEA Acceptance for **MTGL, Inc.**, **LEA# 044** is effective until **April 6, 2024.**

MTGL Fee Schedule for Prevailing Wages
July 1, 2023 - June 30, 2024

PROFESSIONAL SERVICES	UNIT	RATE
Staff Engineer / Geologist	HR	$ 115.00
Project Manager/Engineer/Geologist	HR	$ 135.00
Principal Engineer/Geologist	HR	$ 175.00
Draftsperson	HR	$ 70.00
Administrative (Per Monthly Invoice)		5%
Project Setup Fee		$ 200.00
Certified Payroll (Per Pay Period)		$ 95.00

FIELD INSPECTION PERSONNEL	UNIT	RATE
ICC Special Inspector	HR	$ 115.00
Soils/Asphalt Technician	HR	$ 115.00
AWS/CWI Welding Inspector	HR	$ 115.00
NDT Technician / Fabrication Inspector	HR	$ 135.00
Field/Lab Supervisor	HR	$ 135.00
Shotcrete Inspector	HR	$ 115.00
Laboratory Technician	HR	$ 80.00
L.A. City Special Inspector	HR	$ 145.00
Multi-Certified Inspector	HR	$ 135.00
Pull l Torque Testing Technician	HR	$ 115.00
Batch Plant (Concrete or Asphalt) Technician	HR	$ 115.00
Firestopping Inspection	HR	$ 180.00
Floor Flatness / Levelness (Inc. Equipment)	DAY	$ 1,500.00
Prestressed/Post Tensioned Inspector	HR	$ 115.00
Concrete, Masonry, Asphalt Coring or Sawing		QUOTE
Travel Time	HR	Tech Rate
Mileage	MILE	$ 0.63

LAB TESTING - SOIL	UNIT	RATE
D422 Hydrometer Analysis	EACH	$ 175.00
D422 Sieve Analysis of Soil	EACH	$ 200.00
D558 Soil Cement - Maximum Density	EACH	$ 300.00
D559 Soil Cement - Sample Preparation	EACH	$ 100.00
D854 Specific Gravity of Soils	EACH	$ 125.00
D1140 Materials Finer than #200 (Sieve)	EACH	$ 60.00
D1557 Maximum Density	EACH	$ 290.00
D1883 California Bearing Ratio (CBR)	EACH	QUOTE
D2216 Soil Moisture Content by Mass	EACH	$ 25.00
D2419 Sand Equivalent	EACH	$ 110.00
D2434 Permeability	EACH	QUOTE
D2435 Consolidation	EACH	$ 225.00
D2435 Consolidation with Time Rate	EACH	$ 275.00
D2844 R-Value & Expansive Pressures	3 Points	$ 250.00
D2937 Moisture & Density (Ring Samples)	EACH	$ 30.00
D3080 Direct Shear	EACH	$ 200.00
D4318 Plasticity Index of Soils	EACH	$ 145.00
D4829 Expansion Index of Soils	EACH	$ 135.00
CT 216 CA Impact Max Density	EACH	$ 225.00
CT 216 CA Impact Rock Correction	EACH	$ 95.00

LAB TESTING - AGGREGATES	UNIT	RATE
C40 Organic Impurities in Fine Agg	EACH	$ 95.00
C88 Soundness by Sodium Sulfate	EACH	$ 315.00
C123 Percent Lightweight Particles	EACH	$ 215.00
C127 Specific Gravity (Coarse Agg)	EACH	$ 130.00
C128 Specific Gravity (Fine Agg)	EACH	$ 150.00
C131 Abrasion - Los Angeles Rattler	EACH	$ 235.00
C136 Sieve Analysis (Combined Agg)	EACH	$ 130.00
C136 Sieve Analysis (Fine or Coarse Agg)	EACH	$ 110.00
C142 Clay Lumps & Friable Particles	EACH	$ 135.00
C535 Abrasion (Large Agg) - Los Angeles Rattler	EACH	$ 235.00
C566 Moisture Content by Drying	EACH	$ 25.00
CT 227 Cleanness Value	EACH	$ 230.00
D3744 Durability Index	EACH	$ 180.00
D5821 Flat & Elongated Particles	EACH	$ 200.00
T335 Crushed Particles	EACH	$ 170.00

LAB TESTING - Misc.	UNIT	RATE
C67 Roofing Tile Absorption	EACH	$ 60.00
C67 Roofing Tile Strength Test	EACH	$ 60.00

Sample Pickup Charges	UNIT	RATE
Pick up Sample Trip Charge (2hr Minimum)	HR	$ 65.00
Weekend Sample Pick Up Charge (2hr Minimum)	HR	$ 80.00

LAB TESTING - CONCRETE	UNIT	RATE
C39 Compressive Strength - Concrete Cylinders (6" x 12")	EACH	$ 35.00
C39 Compressive Strength - Cores (6" Max. Diameter)	EACH	$ 55.00
C78 Flexural Strength - Beams (6" x 6")	EACH	$ 60.00
C157 Concrete Shrinkage (Set of 3)	SET	$ 350.00
Core Trimming (In Laboratory)	EACH	$ 55.00
C192 Concrete Trial Batch w/ Lab Testing	EACH	$ 1,100.00
C469 Modulus of Elasticity	EACH	$ 150.00
C495 Comp. Strength - Lightweight Concrete Fill	EACH	$ 45.00
Handling Charge - Beams Not Broken/Hold	EACH	$ 50.00
C496 Tensile Strength, Splitting	EACH	$ 75.00
C567 Unit Weight (Hardened Lightweight Concrete)	EACH	$ 50.00
C1140 Shotcrete Panel Test	EACH	$ 300.00

LAB TESTING - ASPHALT	UNIT	RATE
D1188 Core Density Parafilm Coated	EACH	$ 85.00
D1560 Stabilometer - HVEEM	EACH	$ 290.00
D1561 Max Density - HVEEM	EACH	$ 195.00
D2172 Asphalt Content by Solvents	EACH	$ 250.00
D3910 Wet Track Abrasion	EACH	$ 195.00
D5444 Gradation of Extracted Agg	EACH	$ 275.00
D6307 Asphalt Content by Ignition	EACH	$ 245.00
D6926 Max Density - Marshall	EACH	$ 295.00
D6927 Stability and Flow - Marshall	EACH	$ 375.00
T209/D2041 Theoretical Maximum Density	EACH	$ 150.00
T324 Hamburg Wheel	EACH	$ 1,000.00
CT 370 Moisture Content	EACH	$ 70.00

LAB TESTING - MASONRY	UNIT	RATE
C109 Mortar - 2" Cube Compressive Strength	EACH	$ 40.00
C140 Block - Compressive Strength	EACH	$ 75.00
C140 Block - Moisture & Absorption	EACH	$ 80.00
C140 Block - Unit Weight & Measurements	EACH	$ 275.00
C426 Block - Linear Shrinkage	EACH	$ 180.00
C780 Mortar - (2" x 4") Cylinders Comp. Strength	EACH	$ 35.00
C1019 Grout Prisms - Compressive Strength	EACH	$ 35.00
Handling Charge (Cylinders/Cubes/Prisms) Not Broken/Holds	EACH	$ 75.00
C1314 CMU Grouted Prisms - Comp. Strength (< 8" x 8" x 16")	EACH	$ 180.00
C1314 CMU Grouted Prisms - Comp. Strength (> 8" x 8" x 16")	EACH	$ 245.00
C67 Brick - Boil	EACH	$ 90.00
C67 Brick - Compressive Strength	EACH	$ 50.00
C67 Brick - Moisture & Absorption	EACH	$ 85.00

LAB TESTING - STEEL	UNIT	RATE
Steel Chemical Analysis/AWS Weld:Macroetch/Fracture/Bend Test	EACH	QUOTE
A325 High Strength Bolt, Nut & Washer Conformance (Per Assembly)	EACH	$ 180.00
A370 Brinell & Rockwell Hardness Test	EACH	$ 80.00
A370 Nelson Stud Tensile	EACH	$ 195.00
A370 Rebar Bend & Tensile Test No. 11 Bar & Smaller	EACH	$ 45.00
A615/706 Bend Test No. 11 Bar and Smaller	EACH	$ 60.00
A615/706 Tensile No. 11 Bar and Smaller	EACH	$ 65.00
A615/706 Tensile No. 14 Bar and Larger	EACH	QUOTE
A416 Prestressing Wire, Tension	EACH	$ 170.00
Sample Preparation (Cutting)	EACH	$ 80.00
A416 Prestressing Cable (7 Wire) - Yield & Tensile	EACH	$ 170.00
E605 Fireproofing Unit Weight	EACH	$ 60.00

EQUIPMENT CHARGES	UNIT	RATE
Air Meter	DAY	$ 30.00
Dye Penetrant Equipment	DAY	$ 50.00
Emissivity Test Kit	EACH	$ 50.00
Ground Rod Equipment	DAY	$ 50.00
Jacking Assembly	DAY	$ 65.00
Magnetic Particle Equipment	DAY	$ 50.00
Nuclear Density Gauge	DAY	$ 70.00
Pachometer	DAY	$ 55.00
Sand Cone Kit	DAY	$ 50.00
Schmidt Hammer	DAY	$ 45.00
Skidmore-Wilhelm Bolt Cell	DAY	$ 65.00
Torque Wrench	DAY	$ 50.00
Ultrasonic Equipment	DAY	$ 45.00
Outside Services		Cost +20%

Basis of Charges and Contract Terms

The charges for services and General Terms and Conditions set forth below will govern the provision of services and will constitute the contract terms between the Owner or Owner's Representative (Client) and MTGL, Inc unless the Client and MTGL, Inc. have executed a written contract with respect to such services, in which case the terms and provisions of the written contract shall supersede.

Minimum Field Hourly Charges

For Field Technicians, Special Inspectors or any on-site (field) materials testing services:

4 hours: 4-hour minimum charge up to the first four hours of work.
8 hours: 8-hour minimum charge for over four hours of work, up to eight hours.
Project time accrued includes portal to portal travel time.

Scheduling & Cancellations

• A 24-hour notice is required when scheduling an inspection or technician. Services scheduled after 12:00 PM the previous work-day will be invoiced at a 50% increase.

• A two-hour show -up charge will be applied to any service canceled the same day of service.

• Rush laboratory tests are subject to a 50% increase.

• Verbal request will be considered authorization to perform billable work. Client shall designate member(s) of staff who have authority to request services and notify MTGL in writing of their authorized representative. Otherwise all service requests are billable.

Overtime Rates

• Work performed in excess of 8 hours per day and / or up to eight (8) hours on Saturdays will be billed at 1.5 times the unit rate.

• Work performed on Sunday, recognized holidays, or in excess of eight (8) hours on Saturdays will be billed at 2.0 times the unit rate.

• A 20% surcharge will be applied for laboratory tests performed on a Saturday or Sunday.

• Work performed by field or laboratory staff outside of normal business hours (5:00 AM - 5:00 PM) will be subject to the above overtime rates.

Administrative Charges

• Project administrative costs are billed at 5% of the monthly invoice total.

• Certified payroll requests will have a processing fee applied for each project, billed at $95 per payroll week when requested by the client.

Anticipated Costs

• MTGL estimates a budget to assist the client with code required inspections and testing based upon information provided by the client. MTGL's ability to perform within the estimated budget relies heavily on the accuracy of the information provided, as well as the cooperation of client's management staff.

• Project actual budget totals may vary. Estimated budget hours are based upon 40 hours a week, 8 hours a day, Monday-Friday. Client shall monitor the percentage of work remaining to assure inspections and testing is not greater than the estimated budget and adjusts the contractor's labor and scheduling to maintain the work completion schedule.

• Inspectors daily reporting will be invoiced at 0.5 hours at the applicable rate.

• Client recognizes and agrees that any "anticipated costs," "budget estimates," or the like that may be prepared by MTGL 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 MTGL's working conditions and hours as an attachment to their contract.

• Sample preparation charge of 0.25 hours will be invoiced for laboratory testing.

• Additionally, any weekly overtime hours, Saturday or Sunday, double shift, and/or night shift differential for shop steel inspection are NOT included in MTGL's proposal.

Travel Charges & Mileage

• For projects outside a 50-mile radius from the nearest MTGL facility, $0.63 per excess mile to and from the project will be charged for inspectors and technicians.

• When project related equipment is required to be transported to and from the project site, time and mileage for inspectors and field technicians will be billed on a portal to portal basis.

For all projects, $0.63 per mile rate and applicable travel time will be charged portal to portal for engineers, consultants, and supervisors from the laboratory to the project site and return.

Laboratory Testing

• A 2-hour minimum material sample pick-up charge with an hourly rate of $65 will be billed in addition to the prices quoted for testing.

• Rush testing will be invoiced at a 50% mark-up.

• Quoted laboratory test rates assume samples are free of hazardous materials. Handling and testing of samples containing hazardous materials may include additional costs.

Weekend Sample Pick-Ups

In order to be in strict conformance with testing standards, it may be required that weekend pick-ups be performed (e.g. concrete specimens cast on Friday must be picked up during weekend to be in conformance with ASTM C31 requiring specimens to be moved to their final curing location within 48 hours of casting.) Applicable charges for weekend work will apply when this is required. Should these charges not be authorized then MTGL will not be held responsible for any negative consequences for non-conformance .

Terms of Payment

• Invoices for all services willl be submitted monthly. These invoices are due in full upon presentation to client. Invoices outstanding over 45 days are considered past due and will be subject to a finance charge of 1.5% of the unpaid balance each month.

• All invoice errors or necessary corrections shall be brought to the attention of MTGL within 30 days of receipt of invoice. Thereafter, customer, acknowledges invoices are correct and valid.

• MTGL reserves the right to terminate its services to a customer without notice if all invoices are not current. Upon such termination of services, the entire amount accrued for all services performed shall immediately become due and payable. Customer waives any and all claims against MTGL, its subsidiaries, affiliates. servants and agents for termination of work on account of these terms.

• In the event of any litigation arising from or related to any agreement to provide services whether verbal or written, the prevailing party shall be entitled to recover from the non-prevailing party all reasonable costs incurred, including staff time. court costs, attorney fees and all other related expenses in such litigation. Additionally, in the event of a non- adjudicative settlement of litigation between the parties or a resolution of dispute by arbitration, that same process shall determine the prevailing party.

Please note that field service rates will increase 6% July 1st of 2024 for cost of living increases.

Our professional engineering, geology, and inspection services are performed in accordance with the current standards of practice in the industry. No other warranty or representation, express or implied, is made or intended.

MTGLINC-01 MURPHEYM

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 8/30/2023

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 4370 La Jolla Village Drive Suite 600 San Diego, CA 92122	CONTACT NAME: Mandy Murphey PHONE (A/C, No, Ext): (619) 400-1990 50200 FAX (A/C, No): (619) 574-6288 E-MAIL ADDRESS: Mandy.Murphey@ioausa.com
INSURED MTGL, Inc. 2992 E. La Palma Ave., Ste. A Anaheim, CA 92806	INSURER A : Travelers Property Casualty Company of America — NAIC # 25674 INSURER B : State Compensation Insurance Fund of CA — 35076 INSURER C : Continental Casualty Company — 20443 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	
A	[X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR [X] Cont Liab/Sev of Int GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [X] PRO-JECT [ ] LOC [ ] OTHER:			6802H020984	9/1/2023	9/1/2024	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG **Deductible**	$ 1,000,000 $ 1,000,000 $ 5,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $ 0
A	AUTOMOBILE LIABILITY [X] ANY AUTO [ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS [ ] HIRED AUTOS ONLY [ ] NON-OWNED AUTOS ONLY [X] Comp.: $2,500 [X] Coll.: $2,500			BA2S139998	9/1/2023	9/1/2024	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
A	[X] UMBRELLA LIAB [X] OCCUR [ ] EXCESS LIAB [ ] CLAIMS-MADE [ ] DED [X] RETENTION $ 0			CUP4161T475	9/1/2023	9/1/2024	EACH OCCURRENCE AGGREGATE	$ 9,000,000 $ 9,000,000 $
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N [ ] **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		9278739-23	7/1/2023	7/1/2024	[X] PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000 $ 1,000,000 $ 1,000,000
C	Prof Liab/Clms Made			MCH591879084	9/1/2023	9/1/2024	Per Claim	5,000,000
C	Ded.: $50K Per Claim			MCH591879084	9/1/2023	9/1/2024	Aggregate	5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

PROOF OF INSURANCE

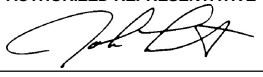
CERTIFICATE HOLDER

FOR YOUR REFERENCE ONLY

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

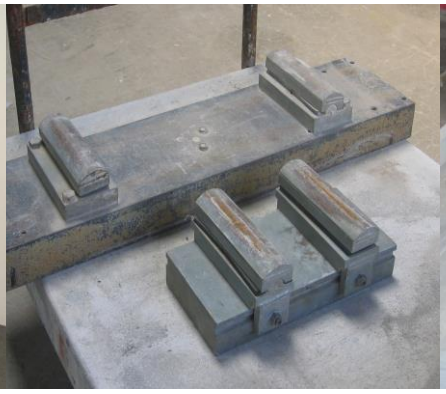










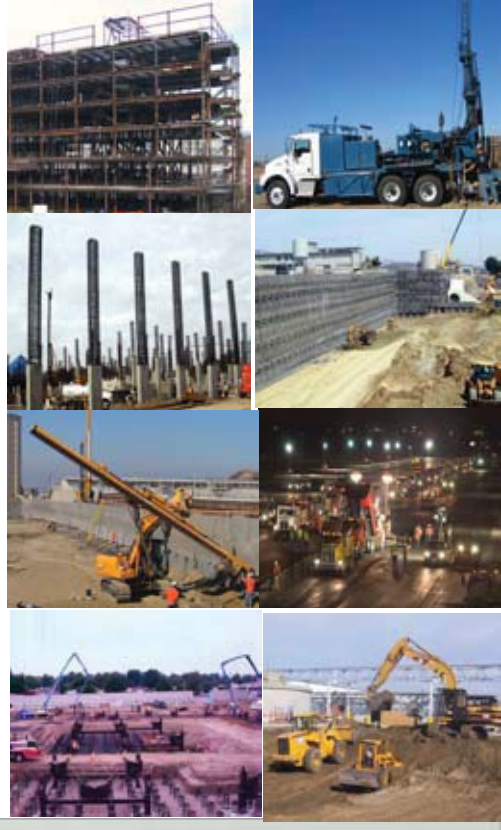



MTGL

“Providing Value in Quality Control”

Geotechnical, Materials Testing and Special Inspection Services

TGR GEOTECHNICAL



Building Firm Foundations

PROPOSAL FOR CONSTRUCTION INSPECTION AND/OR SOILS ENGINEERING
`
FOR THE ALTADENA LIBRARY DISTRICT

Environmental ● Geotechnical ● Expert Witness ● Material Testing ● Special Inspection

Geotechnical
Environmental
Hydrogeology
Material Testing
Construction Inspection

February 23, 2024

Jennifer Pearson,
Capital Projects Manager
Jennifer.pearson@huckabeeinc.com

Subject: Proposal for Construction Inspection and/or Soils Engineering On-Call Services, Altadena Libraries

Jennifer,

TGR Geotechnical, Inc. (TGR), a small business, is pleased to submit this proposal and qualifications for On-Call Construction Inspection and/or Soils Engineering Services for the Altadena Libraries project.

All geotechnical inspection and testing services will be performed by TGR Geotechnical (LEA 204). All special inspection shall be performed by our sister firm Reliant Testing Engineers (RTE LEA 214) which has common ownership and insurance.

Since established in 2002 TGR has provided special project inspection services and geotechnical engineering services for public works, municipal, commercial and residential projects.

TGR Geotechnical is a multi-disciplined consulting firm providing professional engineering design and construction support services in the area of geotechnical, geological, geo-hazard analysis, environmental, instrumentation, geophysical, construction inspection and laboratory testing for all types of projects.

Our project analysis & design methods use the principal's experience as well as our staff of professional engineers and geologists. This approach, coupled with progressive management and experienced professional staff, permit us to continue to provide clients with the design excellence they expect and deserve.

TGR Geotechnical, Inc. is a County of Los Angeles Certified CBE, a U.S. Small Business certified 8(a) and SDBE firm and California certified MBE and DBE firm. Attached please find our company profile, personnel, resume, services offered, and representative project experience along with our certifications. TGR has reviewed the indemnity and insurance provisions contained in the RFP and Addendums. If given the opportunity to contract with the District, TGR has no objections of the terms prescribed by The Altadena Library District Professional Services Agreement and takes no exceptions to the Altadena Libraries Request for Proposal.

Thank you for allowing TGR the opportunity of expressing our interest in working with you. Please do not hesitate to contact me if you have any questions or need additional information.

Sincerely,

TGR GEOTECHNICAL, INC.

Authorized Contact: Sanjay Govil, President, PE, GE

TGR Geotechnical, Inc. (Prime)
Authorized Contact: Sanjay Govil, President
Address: 3037 S. Harbor Boulevard, Santa Ana, CA 92704
Phone Number: (714) 641-7189
Fax Number: (714) 641-7190
Business License Number: City of Santa Ana - 7051

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TGR GEOTECHNICAL
DBE, MBE & SBE firm
3037 S. HARBOR BLVD
SANTA ANA, CA 92704
P 714.641.7189 F 714.641.7190
www.tgrgeotech.com

SECTION I – EXPERIENCE/MINIMUM QUALIFICATIONS

TGR Geotechnical, Inc. (TGR), along with sister firm Reliant Testing Engineers (RTE), is a multi-disciplinary engineering firm that was established in 2002 and 2004, respectively. We provide expertise in geotechnical engineering, geological studies, earthquake engineering, geotechnical instrumentation, vibration studies, and geotechnical observation & testing, material testing, and special inspection during construction. TGR's project expertise includes public works, water & sanitation districts, parks & recreation facilities, educational facilities, high-rise, retail, commercial/industrial, healthcare, academic, institutional, and residential.

Principal Dr. Sanjay Govil, PE, GE heads the firms. Dr. Govil has over thirty-five years of teaching, research, and consulting experience in a wide variety of complex projects involving geotechnical and geologic investigation, shallow and deep foundations, earth retaining structures, ground improvement, temporary shoring, slope stability and landslide investigation, earthquake engineering, geotechnical instrumentation, forensic studies, geotechnical observation, special inspection, and material testing.

TGR/RTE has a commitment to provide geotechnical and geological consulting, construction inspection, and materials testing services with a high degree of professional excellence and proficiency. We strive to offer our clients individual attention and provide innovative solutions at a competitive cost from our headquarters located in Santa Ana, Orange County. We have a staff that is technically one of the finest and an in-house laboratory that is state-of-the-art.

TGR is able to meet and exceed all the minimum qualifications from Section III of the provided RFQ including: possessing the appropriate professional licenses and are in good standing with our licensing authorities; have at least 10 years' experience in providing construction inspection/testing and soils engineering/geotechnical services; shall procure and maintain the insurance required, for the duration of the contract and can demonstrate substantial knowledge and experience working with and within the requirements and processes applicable to Los Angeles County Public Construction Projects. TGR/RTE has no conflicts of interest and acknowledges that a Statement of Economic Interest, Form 700, may be required to filed with the District.

TGR Geotechnical, Inc. (Prime)
Authorized Contact: Sanjay Govil, President
Address: 3037 S. Harbor Boulevard, Santa Ana, CA 92704
Phone Number: (714) 641-7189
Website: https://www.tgrgeotech.com/
Email Address: sgovil@tgrgeotech.com
Federal Tax ID: 33-0992320
LEA No.: 204
No of Years in Business: 20
Services Provided: Geotechnical Investigation and Testing
No of Employees (company-wide): 13
No of Employees in Southern California Counties: 13

Reliant Testing Engineers (Sister Firm)
Authorized Contact: Sanjay Govil, President
Address: 3035 S. Harbor Boulevard, Santa Ana, CA 92704
Phone Number: (714) 641-7189
Website: https://relianttesting.com/
Email Address: sgovil@tgrgeotech.com
Federal Tax ID: 20-0879770
LEA No.: 214
No of Years in Business: 18
Services Provided: Special Inspection and Material Testing
No of Employees (company-wide): 35
No of Employees in Southern California Counties: 35

Provided below are five (5) references that TGR/RTE has provided services to that are similar to the scope of work described in the Altadena Library RFP documents.

Reference 1:	**Mr. Gabriel Carvajal, Project Manager**
Organization:	Condon Johnson and Associates, 3434 Grove St, Lemon Grove, CA
Contact Information:	(858) 530-9165
Project:	East Garden Grove-Wintersburg Channel Phase 3 Improvements, Huntington Beach, CA
Brief Project Description:	Redevelopment of the Wintersburg Channel to meet upgrade flood protection and seismic resilience. Bench Scale testing for Soil-Cement including Compressive Strength and Triaxial

	Permeability Testing of Molded Soil-Cement. Geotechnical Observation and Testing of Deep Soil Mix Columns, Pressure Grouting, and Tie Backs, Special Inspection and Materials Testing for Shotcrete.
Project Timeline:	May 2020 – December 2022
Reference 2:	**Ms. Jennifer Pearson, Architect, Program Manager**
Organization:	Formerly Rachlin Partners, Huckabee Inc., 8640 National Boulevard, Culver City, CA
Contact Information:	(310) 266-5144
Project:	Bob Lucas Memorial Branch Library, 2659 Lincoln Avenue, Altadena, CA
Brief Project Description:	Project consists of an existing library with improvements consisting of a 4,000 square foot addition and renovations. The library was remodeled, and a new community room, lobby and amphitheater were constructed. TGR provided the initial geotechnical investigation report, percolation testing with subsequent addendum reports.
Project Timeline:	July 2023 – On-going
Reference 3:	**Mr. Edgar Paz, Architect**
Organization:	MSP Architects, 3575 Long Beach Boulevard, Long Beach, CA
Contact Information:	(562) 427-5007
Project:	Parkview and Monte Vista ES Underground Utility Replacement and Modernization
Brief Project Description:	Geotechnical Investigation Report, Geotechnical Consulting Services, Laboratory Testing, Geotechnical Observation, Special Inspection, and Material Testing during construction for campus wide underground utility replacement and modernization.
Project Timeline:	December 2019 – October 2020
Reference 4:	**Frederick Braco, Design/Construction Project Manager V**
Organization:	Kaiser Permanente
Contact Information:	(562) 234-046
Project:	Kaiser Watts MOB/Learning Center, 1525 E 103rd Street, Los Angeles, CA
Brief Project Description:	Project consisted of demolition of the Kaiser Watts Learning Center, youth center and library and replaced with a new 3 story medical office building, learning center and three levels of subterranean parking. TGR provided the initial geotechnical investigation report, shallow and deep percolation testing for stormwater infiltration and TGR/RTE provided geotechnical observation and materials testing during construction. Substantial foundation, shoring and settlement engineering analysis was required to accommodation the building/shoring loads and subterranean parking.
Timeline:	January 2017 - On-going
Reference 5:	**Mr. Andrew Ulman, Project Manager**
Organization:	Formerly Rachlin Partners, 8640 National Boulevard, Culver City
Contact Information:	(310) 204-3400
Project:	Griffith Elementary Modernization, 9633 Tweedy Lane, Downey, CA
Brief Project Description:	Project includes a new gymnasium, and two-story classroom building and modernization of 13 campus buildings including administration and classroom buildings. Our scope included geotechnical investigation, including site seismicity and liquefaction analysis, and providing geotechnical design recommendations for the proposed buildings. The ground improvement was performed by deep soil mixing columns (DSM). The geotechnical report along with the DSM Plans and Specifications were approved by California Geological Survey (CGS).
Timeline:	July 2017 – February 2022

TGR has extensive experience with projects requiring geotechnical consulting and construction oversight services which

have been performed for various public works and municipal projects across Southern California. We have experience in geotechnical engineering/investigation and construction oversight in ground-up (new), modernization, and underground utility projects.

There is no pending legal action against the firm nor against any employee of the firm.
TGR has not filed for bankruptcy in the past seven (7) years and does not have any predecessor firms.

SECTION III - PERSONNEL

The following table provides the duties and the tasks to be performed by TGR/RTE's proposed personnel and field staff involved in this contract. TGR will be providing all work related to geotechnical studies and geotechnical observation and testing, and RTE will be providing all special inspection and material testing services. However, all services and budget will be managed by Dr. Govil. The client interaction and coordination will be seamless. All personnel proposed under this RFP are based out of our office located at 3037 S. Harbor Boulevard, California. Detailed resumes can be provided upon request

Name	Project Role	Duties	Years with Firm	Years of Relevant Experience
Dr. Sanjay Govil PE, GE. (Principal)	Project Manager and Principal Engineer	Staffing and overseeing of field inspectors; budget control; Geotechnical/Soil Design Engineering	21	26
Mr. Ed Burrows PG, CEG, CHG	Principal Geologist	Geologic Hazard Studies	12	21
Mr. Prakash Khanal	Project Engineer	Supervision of Soil Inspection and Testing during excavation and site work.	5	8
Mr. Robert Aguilar	Staff Engineer	Soils Laboratory Supervisor	6	5
Mrs. Cheriann Hanley	Field Operations Manager	Soil Inspection and Testing	10	15
Mr. Alex Magbojos	Senior Soil Technician	Soil Inspection and Testing	20	20
Mr. Robert Jones	Project Manager, Special Inspection	Overseeing special inspection of structural components and related materials testing	18	18
Mr. Daniel Ellenwood	UT Level II Manager	NDT Level II	17	17
Mr. Curt Caprine	Special Inspector	Multi Carded Special Inspection	15	19
Mr. Joe Ballesteros	Special Inspector	Multi Carded Special Inspection	10	15
Mr. Gerald Cruz	Special Inspector	Multi Carded Special Inspection	16	21

SECTION IV -QUALIFICATIONS

TGR is dedicated to completing all projects in a timely manner, within budget and the satisfaction of our clients. Each project has its own requirements, constraints and challenges. Rather than providing one solution/report for all projects, we approach each project with individual attention incorporating the constraints and challenges.

TGR/RTE has the depth of qualified manpower to meet all your scheduling needs on short notice; we will not impact your project due to scheduling issues. TGR/RTE is a team player and works closely with the design team including architect, structural, and civil as well as the construction team to ensure that the geotechnical reports incorporate latest design concepts and that the team members are aware of any geotechnical and geological challenges at an early stage of design that could potentially impact the overall project cost and explore alternate recommendations to keep the project within budget.

TGR provides expertise in geotechnical engineering, geological studies, earthquake engineering, materials engineering, geotechnical instrumentation, vibration studies, ground improvement, construction inspection and materials testing.

Apart from typical geotechnical/testing services, TGR/RTE has unique capabilities that truly distinguish us from other providers. Presented below is a complete list of service provided by TGR Geotechnical.

GEOTECHNICAL ENGINEERING
Geotechnical Investigation
Foundation Design
Temporary and Permanent Shoring
Seismic Ground Motion Study
Earthquake Engineering
Ground Improvement Studies
Earth Retaining Structures
Landslide/Slope Stability
Forensic Studies
Expert Witness
Geotechnical Instrumentation
Borrow Site Evaluation
Alternate Foundation Analysis
Excavation and Dewatering
Pile Drivability & Capacity Analysis
Liquefaction & Lateral Spread

GEOLOGICAL STUDIES
Geologic Mapping
Fault Studies
Rippability Study
Geologic Hazard Evaluation
Feasibility Studies
Forensic Evaluation
Landslide Evaluation
Seismic Hazard Assessment
Hydrogeologic Evaluation
Environmental Impact Reports
Rock Mass Characterization
Aerial Photograph Reviews
Groundwater Studies

GEOTECHNICAL OBSERVATION
Compaction Testing
Retaining Wall and Trench Backfill
Shallow and Mat Foundation
Piles, Caissons, Geopiers
Stone Column, Soil Cement Mix
Tie-back, Soil Nail, Ground Anchors
Soldier Pile and Lagging
Braced Excavation and Sheet Pile
Grouting
Inclinometer, Extensometers
Piezometers, Strain Gauge
Segmental Retaining Wall
Deep Dynamic Compaction
Integrity Testing of Piles
Vibration Monitoring
Asphalt Concrete Pavement
Gamma Gamma & CSL Logging

GEOPHYSICAL
Rippability Study
Evaluate Shear Wave Velocity
Ground Vibration & Blast Monitoring
Ground Penetrating Radar
Pile Integrity Testing
Evaluate Depth to Bedrock
Locate Buried Structures

ENVIRONMENTAL
Phase I Site Assessment
Phase II Site Assessment
Soil and Groundwater Sampling
Site Investigation
Analytical Laboratory Testing
Water Well Construction
Feasibility Studies

MUNICIPAL
Grading Plan Check
Geotechnical Reviews
Inspection Services
Testing Services
Geological Reviews
Engineering Services

SOIL/AGGREGATE/ASPHALT LAB	MATERIAL LAB TESTING	DEPUTY INSPECTION
Index Properties of Soils	Mortar	Reinforced Concrete
Max Density (Soil, Aggregate, AC)	Grout	Pre-Stressed Concrete
Shear, Triaxial, Compression Test	Concrete	Reinforced Masonry
Consolidation, Permeability	Structural Steel	Structural Steel
Triaxial	Reinforcing Steel	Welding
Specific Gravity	Stressing Tendons	Non-Destructive Testing
Corrosivity, Sulfate, Ph, Chloride	Masonry Prism	Epoxy/Drilled in Anchors
Expansion, Swell	Masonry Block	Fireproofing
Sand Equivalent	High Strength Bolts	Mechanical & Electrical
Durability, Cleanness Value	Fireproofing Density	Building
CBR, R-Value	Fireproofing Cohesion/Adhesion	Radiography
Abrasion	Unit Weight and Air Content	Prefabricated Concrete
Asphalt Extraction Gradation	Trial Batch	Welding Procedure Specification
Stability and Flow	Shotcrete Core and Compression	Pull and Torque Test

Multiple projects requiring geotechnical consulting and construction oversight services have been performed for various public works and municipal projects across Southern California. We have experience in geotechnical engineering/investigation and construction oversight in ground-up (new), modernization and underground utility projects.

It is TGR's practice to assign staff that live close to the site to reduce drive time. Moreover, TGR does not charge for drive time for soils and special inspectors. TGR utilizes electronic communication for dispatch request, daily field reports and laboratory test reports. TGR has utilized several project management software including E-Builder, Procore Technologies and CA Tools Systems. TGR is also proficient with Microsoft Word, Excel, Powerpoint, AutoCAD, ArcGIS, SHAKE, Geostudio, LPILE, APILE, Cliq and gINT. We are confident that we can use these programs to create deliverables to the satisfaction of the District.

SECTION V - COST SECTION

TGR's billing rates attached in the following pages and are fixed through December 31, 2024. After that the rates will be adjusted in accordance with the cost of living increase as well as wage rate increase. Our rates and fixed fee proposals provided for services are fully burdened.

TGR is very cost conscious of taxpayer dollars. Typically, TGR performs geotechnical studies (design/investigation reports) on a fixed fee basis depending on the size, complexity and geohazards of the project site. Construction oversight is billed on a time and material basis. Our field personal time is approved by the construction manager or IOR at the end of each day. We are very conscious of the time spent on engineering oversight during construction.

In order to control cost TGR provides clients with a budget recap that presents the dollars spent on each line item with respect to the budget. We also notify clients when we approach 75% of the total budget.

TGR basis costs on fully burdened fixed fee proposals and rates. Additional costs are not anticipated and would only be provided by the district's request for additional services.

TGR/RTE confirms it can meet the insurance requirements presented in the RFQ and Addendum, however an additional fee is included for the increased $2/2million insurance provision.

Please see the following pages for our schedule of fees.

Task	Description	Fee	Unit
ON-SITE FIELD INSPECTION (prevailing wage)			
42000	Soils field technician	$120.00	hour
42100	LA City Deputy Grading Inspector	$130.00	hour
40000	Reinforced concrete	$115.00	hour
40003	Reinforced concrete QC - water/slump/control ACI Technician	$115.00	hour
40006	Post tensioned concrete & stressing operations	$115.00	hour
40010	Epoxy anchors, drilled anchors (inspection/observation only)	$115.00	hour
40015	Shotcrete	$115.00	hour
40020	Masonry	$115.00	hour
40025	Structural steel erection welding and bolting	$115.00	hour
40027	Structural steel erection welding and bolting - AWS/CWI	$115.00	hour
40028	Welder Certification or Welding Procedure Specification Review	$115.00	hour
40030	Structural steel erection: NDT - UT/MT/PT	$175.00	hour
40035	Metal decking	$115.00	hour
40025	Miscellaneous field welding (stairs, curtain wall, davits, etc.)	$115.00	hour
40601	Pull Test Technician and jacking assembly	$135.00	hour
40602	Concrete/Masonry/shotcrete field coring w/equipt. (4 hr min, portal to portal)	$175.00	hour
40043	Spray applied fireproofing	$115.00	hour
42001	Asphalt laydown and batch plant inspection	$118.00	hour
40061	Vehicle/Nuclear Gauge Rental	$100.00	day
40050	Late notice surcharge: Same day dispatch request/Next day request after 4pm	$75.00	hour
	Prevailing Wage - add per hour for all field, shop and batch plant work	$0.00	hour
	Overtime - after 8 hrs M-F, Sat. 1 to 8 hrs	1.5x	hour
	Overtime - after 12 hrs M-F, Sat. after 8 hrs, Sundays & Holidays 1 to 8 hrs	2x	hour
40002	Pick up/Delivery M-F (Sat/Special Orders at 1.5x - Sun at 2x)	$60.00	hour
40200	Outside services	Cost +5%	
	Insurance $2/2 million Additional fee		$4000.00
OFF-SITE FIELD INSPECTION (non-prevailing wage)			
40300	Concrete batch plant and prefabricated concrete QC inspection - local	$115.00	hour
40305	Structural steel Fabrication inspection - local	$115.00	hour
40310	Structural steel Fabrication NDE - local	$175.00	hour
40050	GluLam Beam In-Plant Inspection	Quote	hour
40051	Modular Building In-Plant inspection	Quote	hour
40013	Sample and Tag	$65.00	hour
40400	Per Diem	$125.00	day
50000	Mileage (portal to portal - laboratory to project site)	$0.85	mile

Task	Description	Fee	Unit
MATERIALS LABORATORY SERVICES			
The rates below include molds, pick-up M-F during business hours, within 50 mile radius. Tech/Equipt., rushes, after hours & distance extra.			
10000	Concrete compression tests 6" x 12" (4) or 4" x 8" (5)cylinders - C39	$30.00	each
10001	Concrete/shotcrete core compression up to 6" (including trim) - C42	$50.00	each
10002	Lightwieght concrete compression test - C495	$30.00	each
10003	Flexural Test, 6" x 6" beams - C78	$85.00	each
10004	Fuel Surcharge per sample	$3.00	each
10021	Mortar cylinders - C780	$35.00	each
10022	Grout Prisms (including trim) - C39	$35.00	each

Task	Description	Fee	Unit
MATERIALS LABORATORY SERVICES continued			
10023	Composite masonry prisms compression test, 8" x 8" x 16" - E447	$125.00	each
10025	Masonry core compression test - C140/C39	$50.00	each
10026	Masonry core, shear test	$85.00	each
10019	Block compression 8" x 8" x16" - C140	$125.00	each
10027	Block moisture content & absorption test w/ measurements - C140	$210.00	each
10028	Block shrinkage test - C426	$185.00	each
10029	Non-shrink grout - C1107	$35.00	each
10030	Saw cutting and sample prep	$35.00	each
10031	Unit weight of hardened concrete - C567	$55.00	each
10050	Mix design - review of existing	$250.00	each
10051	Mix design	$450.00	each
10100	Drying Shrinkage (3 bars - 4readings up to 90 days) - C157	$500.00	set
10101	CC Moisture/Vapor Test (plus technician hourly) minimum 3 tests - ASTM F-1869-03	$60.00	each
10102	Drill in Moisture Test (plus technician hourly) minimum 3 tests - ASTM F-21	$85.00	each
10103	Laboratory Trial Batch (slump/unit weight/air/6 cylinders/compression) - C192	$750.00	each
20002	Rebar up to No. 11 tensile or bend test - A615	$65.00	each
20004	Rebar No. 14 tensile or bend test - A615	$90.00	each
20005	Rebar No. 18, hoops, couplers tensile - A615	$195.00	each
20006	PQR Welder Qualifications	quote	each
20010	Steel Tensile strength - A370	quote	each
40307	Carbon Fiber Reinforced panels (1 panel=5 coupons machined and tensile tested)	$1,050.00	each
20015	Prestress/Post tension cables (1 unit) - A416	$215.00	each
20014	Prestress/Post tension cables (2 unit) - A416	$305.00	each
20016	Bolt tensile or Nut proof or Bolt proof tests - A370	$105.00	each
20019	Brinell & Rockwell Hardness Test - A370	$70.00	each
20020	Fireproofing Density Test - UBC 7-6	$65.00	each
20021	Fireproofing Adhesion/Cohesion Test Consumables - 736	$45.00	day
20025	Shotcrete panel coring in laboratory with compression (3 cores) - C42	$275.00	set
20500	Schmidt Hammer, Air meter, Rollometer Rental (plus technician hourly)	$55.00	day
20501	Coring Equipment, proof load ram (plus technician hourly)	$150.00	day
20503	NDE Equipment rental UT/MP/DP (plus NDE inspector hourly)	$75.00	day
20508	Coating Thickness Guage (ferrous and non-ferrous metals) plus tech hourly	$85.00	day

Task	Description	Fee	Unit
ASPHALT TESTING			
30010	Absorption, Fine or Coarse (ASTM C128)	$80.00	each
30015	Absorption, Fine (ASTM C128)	$120.00	each
30030	Asphalt - Density and Thickness on Core Samples	$90.00	each
30035	Asphalt - Extraction, % Asphalt	$300.00	each
30050	Asphalt - Maximum Lab Density (Marshall or Hveem)	$315.00	each
30070	Atterberg Limits (ASTM D4318)	$190.00	each
30075	California Bearing Ratio (ASTM D1883)	$485.00	each
30080	Chloride	$80.00	each
30085	Cleanness Value (Cal 227)	$180.00	each
30090	Consolidation Test - (ASTM D2435)	$230.00	each
30095	Consolidation Test - Time Rate per Load Increment	$47.00	each
30100	Corrosivity (Sulfate, Cl, pH, Resistivity)	$305.00	each
30120	Direct Shear Test (Remolded) - Fast (excluding max)	$285.00	each
30125	Direct Shear Test (slow/Residual)	$365.00	each
30130	Direct Shear Test (undisturbed)	$235.00	each
30145	Expansion Index (2.5" or 4") - UBC 18-2, ASTM D4829	$190.00	each

Task	Description	Fee	Unit
ASPHALT TESTING continued			
30150	Los Angeles Rattler (ASTM C131)	$218.00	each
30155	Maximum Density - A/B/C (ASTM D1557 or Cal 218)	$202.00	each
30165	Moisture Content (ASTM D2216)	$18.00	each
30170	Moisture Content and Unit Weight	$32.00	each
30175	Permeability	quotation	each
30180	pH	$57.00	each
30185	Resistivity	$135.00	each
30190	R-Value Soil (Cal 301)	$335.00	each
30195	R-Value Aggregate Base (Cal 301 or ASTM 2844)	$385.00	each
30200	Sand Equivalent (ASTM D2419 and Cal 217)	$109.00	each
30210	Sieve (200 wash)	$98.00	each
30215	Sieve with Hydrometer (ASTM D422)	$298.00	each
30220	Sieve without Hydrometer (ASTM C136)	$145.00	each
30235	Specific Gravity, Bulk SSD, Coarse (ASTM C127)	$95.00	each
30240	Specific Gravity, Fine (ASTM C128)	$105.00	each
30245	Sulfate	$84.00	each

Task	Description	Fee	Unit
GEOTECHNICAL LABORATORY SERVICES, continued			
30260	Unconfined Compression ASTM D2166)	$170.00	each
30265	Unit Weight (ASTM C29)	$65.00	each

Task	Description	Fee	Unit
Engineering, Project Management, Administration, Reports			
60000	Principal Engineer Materials	$185.00	hour
60001	Principal Geotechnical Engineer/Geologist	$200.00	hour
60011	Project Engineer/Geologist	$156.00	hour
60009	Welding/NDT Consultant or Technical Advisor	$125.00	hour
60020	Project Manager	$135.00	hour
60015	Staff Engineer	$135.00	hour
20025	Engineering Technician (portal to portal, hourly minimums apply)	$150.00	hour
90000	Final Structural Materials Certification of Compliance Minimum (excludes Geo)	$750.00	each
90001	Final Structural Geotechnical Certification of Compliance Minimum (excludes Materials	$1,750.00	each
60050	Forensic / Expert Witness (4 hours minimum)	$550.00	hour
44000	Laboratory Technician	$87.00	hour
20600	Rush fee for general testing	50%	each
50009	Draftsperson/CAD drawings	$110.00	hour
60200	Project Coordinator	$90.00	hour
60205	Administration Fees and Report Distribution	6%	ttl inv

GENERAL CONDITIONS/TERMS AS DEFINED ON THIS FEE SCHEDULE WILL APPLY FOR DURATION OF PROJECT:
Minimum: 2 hours show-up if not canceled By 4pm day prior to arrival/4 hours if work performed/8 hours after 4 hours worked.
The onsite IOR will sign daily inspection reports/time tickets, acting as Owner's/Client's agent in approving all inspection time, including overtime, unless client submits alternative instructions in writing prior to job start.
All work including Final must be paid in full prior to issuance of Final Certification of Compliance
Night shift will be charged at time and a half. The field inspection will be adjusted annualy by increase is prevailing wage rates by DIR.
NOTE: Price list valid through December 31, 2024.