

C O N T R A C T

THIS CONTRACT, hereinafter referred to as “CONTRACT” for purposes of identification hereby numbered MA-080-18010599, and dated _____ day of _____, 20_____ is

BY AND BETWEEN

County of Orange, a political subdivision of the State of California, hereinafter referred to as “COUNTY”

AND

GMU Geotechnical, Inc., a California Corporation, hereinafter referred to as “A-E”,

which are sometimes individually referred to as “PARTY” or collectively referred to as “PARTIES”.

RECITALS

WHEREAS, COUNTY requires professional services to accomplish projects and/or services (“PROJECTS/SERVICES”) as described in MA-080-18010599 Scope Of Work for On-Call Construction Services - Geotechnical & Materials Testing, hereinafter referred to as “Attachment A,” attached hereto and incorporated herein by reference; and

WHEREAS, A-E is a firm whose principals are, as required by law, registered by the State of California for the practice of specialized A-E services per the attached Scope of Work.

NOW, THEREFORE, IT IS AGREED by and between the parties hereto as follows:

1. GENERAL**1.1. Retainer**

1.1.1. COUNTY does hereby retain A-E to perform the PROJECTS/SERVICES as required by this CONTRACT.

1.1.2. A professional, duly registered in the State of California, who shall be assigned to PROJECTS/SERVICES and whose services are offered by A-E and accepted by COUNTY is **Ali Bastani, PhD, F.ASCE, PE, GE**.

1.1.3. A-E may employ special consultants/contractors for the accomplishment of the PROJECTS/SERVICES specified; and, it is agreed that only the following firms or independent consultants/contractors are to be employed to provide these PROJECTS/SERVICES, and that the aggregate money value of their PROJECTS/SERVICES shall not constitute more than forty-nine percent (49%) of the total amount of PROJECTS/SERVICES required under this CONTRACT:

- a. 2R Drilling, Inc. – Drilling Subcontractor
- b. Geoboden – Drilling subcontractor
- c. Gregg Drilling & Testing, Inc. – CPT and Drilling Subcontractor
- d. Specialized Testing – Material Testing

1.1.4. Consultants/contractors may be substituted and/or added by mutual CONTRACT of A-E

and the Director, County of Orange, OC Public Works or his designee, hereinafter referred to as "DIRECTOR".

- 1.1.5.** A-E's employment of independent consultants/contractors shall not relieve A-E from the performance of its own responsibilities pursuant to this CONTRACT. However, all consultants/contractors independently contracting with COUNTY shall be independently liable to COUNTY for the performance of the work pursuant to their agreements, and A-E shall have no liability for work by contractors independently contracting with COUNTY.

1.2. Projects/Services

1.2.1. Description of PROJECTS/SERVICES

- a. PROJECT/SERVICES to be performed by A-E shall consist of the work as specified herein and as required in Attachment A. If in the event Attachment A shall be in conflict with any provision of this CONTRACT, the wording as set forth in Attachment A shall prevail.
- b. A-E shall be responsible for submitting all PROJECTS/SERVICES to COUNTY in a form which has been thoroughly reviewed and checked for completeness, accuracy and consistency by the registered professional named in Section 1.1.2 herein; and, any PROJECTS/SERVICES not meeting this requirement will be returned to A-E prior to review by COUNTY.

1.2.2. Design Criteria and Standards

All PROJECTS/SERVICES shall be performed in accordance with instructions, criteria and standards set forth by the DIRECTOR.

1.2.3. Scheduling (*subject to change per scope of work specifications of contract task*)

- a. Concurrently with the work of the CONTRACT, A-E shall prepare a progress work schedule and within five (5) working days from the date of receipt of individual assignments from COUNTY, A-E shall submit to COUNTY two (2) copies of a progress work schedule which shall delineate dates of commencement and completion of the various phases of PROJECTS/SERVICES assignments.
A-E schedule shall include required COUNTY review period(s) set forth herein. An approved copy of the progress schedule will be returned to A-E.
- b. A-E shall allow at least five (5) working days for COUNTY review of progress work schedule. In planning work A-E should anticipate and allow ten (10) working days for COUNTY review of each submittal required in Attachment A.
- c. A-E shall meet on an as-needed basis as determined by COUNTY or at least once every four (4) weeks with COUNTY to review progress of work, adherence to progress schedule, coordination of work, scheduling of seminars, if needed, and to resolve any problems that may develop.
- d. Within five (5) working days of each meeting, A-E shall prepare a brief memorandum summarizing the results of the meeting and shall submit it to COUNTY for concurrence.

- e. A-E shall complete all the work of PROJECTS/SERVICES and obtain all approvals by the COUNTY within the time frame indicated in Attachment A except A-E shall not be responsible for any delay beyond the control of A-E.
- f. In the event A-E fails to complete the work and obtain the approval of DIRECTOR in the time allowed, COUNTY shall have the option of completing the work by its own forces or by contract with another firm. The time allowed for A-E to complete the PROJECTS/SERVICES pursuant to this CONTRACT shall be extended for delay caused by COUNTY in completing its work pursuant to this CONTRACT which delay exceeds the agreed COUNTY review and/or approval time periods.

1.3. Assistance by COUNTY STAFF

- 1.3.1.** COUNTY shall assign an appropriate staff member to work with A-E in connection with the work of this CONTRACT. Said staff member's duties will consist of the giving of advice and consultations, assisting A-E in negotiations with other public agencies and private parties, miscellaneous items which in the judgment of A-E or COUNTY's staff warrant attention, and all other duties as may be described in Attachment A.
- 1.3.2.** All of the above activities, however, shall be the primary responsibility of A-E to schedule, initiate and carry through to completion.

1.4. Term and Maximum Compensation

- 1.4.1.** The term of this CONTRACT is for three (3) years, commencing upon Board of Supervisor approval, with a maximum allowable compensation of one million, five hundred thousand dollars (\$1,500,000), with the option to renew for two (2) additional years, with Board approval; except as permitted in Paragraph 1.5 below.

1.5. A-E Compensation and Extra Work

- 1.5.1.** For the PROJECTS/SERVICES authorized under this CONTRACT, A-E shall be compensated in accordance with the following:
- 1.5.2.** For completion and approval of all PROJECTS/SERVICES where "Extra Work" (defined as changes in approved portions of the PROJECT/SERVICES required by and ordered in writing by DIRECTOR which changes constitute a change in or departure from said approved portions of PROJECTS/SERVICES) is not authorized, compensation including reimbursables shall be described and payable as stipulated in Fee Schedule, herein after referred to as "Attachment B", attached hereto and incorporated herein by reference.

1.5.3. Where extra work is authorized for PROJECTS/SERVICES:

- a. The amount for Extra Work shall be determined using Attachment B. Extra Work shall be required by and ordered in writing by DIRECTOR. If this CONTRACT is not approved by the Board of Supervisors, any change that increases the cumulative CONTRACT price beyond \$100,000 must be approved by the Board. Increases in the CONTRACT amount for services within the existing scope of work may be granted by the DIRECTOR where the amount

does not exceed 25 percent of the existing CONTRACT price or \$100,000, whichever is less.

- b. A-E's billing for the Extra Work shall include but not be limited to names of A-E's staff employed in the Extra Work, classification of employees and number of hours worked.

1.5.4. For partial completion of work of PROJECTS/SERVICES followed by default on part of A-E:

- a. For failure to complete and secure approval of the first required submittal, there shall be no compensation.
- b. For failure to complete and secure approval of other authorized phases, A-E shall, upon completion of PROJECTS/SERVICES by others, be entitled to receive compensation based on approved work of PROJECTS/SERVICES not to exceed the amounts specified in Attachment A for that particular submittal, plus the reasonable value as determined by COUNTY of the non-approved work; provided, however, that if the cost to COUNTY to complete the contract exceeds the amount specified herein, A-E shall be liable to COUNTY for such excess costs attributable to A-E's breach of the CONTRACT.

2. LABOR

2.1 Non-Employment of COUNTY Personnel

2.1.1 A-E agrees that it will neither negotiate, offer, or give employment to any full-time, regular employee of COUNTY in professional classifications of the same skills required for the performance of this CONTRACT who is involved in this Project in a participatory status during the life of this CONTRACT regardless of the assignments said employee may be given or the days or hours employee may work.

2.1.2 Nothing in this CONTRACT shall be deemed to make A-E, or any of A-E's employees or agents, agents or employees of the COUNTY. A-E shall be an independent contractor and shall have responsibility for and control over the details and means for performing the work, provided that A-E is in compliance with the terms of this CONTRACT. Anything in the CONTRACT which may appear to give COUNTY the right to direct A-E as to the details of the performance of the work or to exercise a measure of control over A-E shall mean that A-E shall follow the desires of COUNTY, only in the results of the work.

2.2 Non-Discrimination

2.2.1 In the performance of this CONTRACT, A-E agrees that it will comply with the requirements of the California Labor Code and not engage nor permit any subcontractors to engage in discrimination in employment of persons because of the race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, or sex of such persons.

2.2.2 A-E acknowledges that a violation of this provision shall subject A-E to all the penalties imposed for a violation of the California Labor Code.

2.3 Employee Eligibility Verification

2.3.1 A-E warrants that it fully complies with all Federal and State statutes and regulations regarding the employment of aliens, and others and that all its employees performing work under this CONTRACT meet the citizenship or alien status requirement set forth in Federal statutes and regulations. A-E shall obtain, from all employees performing work hereunder, all verification and other documentation of employment eligibility status required by Federal or State statutes and regulations, including but not limited to, the Immigration Reform and Control Act of 1986, 8 U.S.C. § 1324 et seq., as they currently exist and as they may be hereafter amended. A-E shall retain all such documentation for all covered employees for the period prescribed by the law.

2.4 Independent Contractor

2.4.1 As referenced in Section 2.1.2 of this CONTRACT, A-E shall be considered an independent contractor.

2.4.2 Neither A-E, its employees nor anyone working under A-E shall qualify for workers' compensation or other fringe benefits of any kind through COUNTY.

2.5 Conflict of Interest Contractor Personnel

2.5.1 The A-E shall exercise reasonable care and diligence to prevent any actions or conditions that could result in a conflict with the best interests of the COUNTY. This obligation shall apply to the A-E; the A-E's employees, agents, and relatives; sub-tier contractors; and third parties associated with accomplishing work and PROJECTS/SERVICES hereunder.

2.5.2 A-E's efforts shall include, but not be limited to establishing precautions to prevent its employees or agents from: making, receiving, providing or offering gifts, entertainment, payments, loans or other considerations which could be deemed to appear to influence individuals to act contrary to the best interests of the COUNTY.

2.6 Labor Code Notice

2.6.1 All A-E and subcontractors must comply with the requirements of California Labor Code 1770 et seq. if the work performed is considered a "public works" under California Labor Code 1720 et seq. A-E is encouraged to contact the California Department of Industrial Relations for clarification if the A-E is unsure if some or any of the work performed under this CONTRACT qualifies as "public works".

3. INSURANCE

3.1.1 Prior to the provision of services under this CONTRACT, the A-E agrees to purchase all required insurance at A-E's expense, including all endorsements required herein, necessary to satisfy the COUNTY that the insurance provisions of this CONTRACT have been complied with. A-E agrees to keep such insurance coverage, Certificates of Insurance, and endorsements on deposit with the COUNTY during the entire term of this CONTRACT. The COUNTY reserves the right to request the declarations page showing all endorsements and a certified copy of the policy. In addition, all subcontractors performing work on behalf of A-E pursuant to this CONTRACT shall obtain insurance subject to the same terms and conditions as set forth herein for A-E.

3.1.2 A-E shall ensure that all subcontractors performing work on behalf of A-E pursuant to this CONTRACT shall be covered under A-E's insurance as an Additional Insured or maintain insurance subject to the same terms and conditions as set forth herein for A-E. A-E shall not allow subcontractors to work if subcontractors have less than the level of coverage required by COUNTY from A-E under this CONTRACT. It is the obligation of A-E to provide notice of the insurance requirements to every subcontractor and to receive proof of insurance prior to allowing any subcontractor to begin work. Such proof of insurance must be maintained by A-E through the entirety of this CONTRACT for inspection by COUNTY representative(s) at any reasonable time.

3.1.3 All self-insured retentions (SIRs) shall be clearly stated on the Certificate of Insurance. Any self-insured retention (SIR) in an amount in excess of Fifty Thousand Dollars (\$50,000) shall specifically be approved by the COUNTY's Risk Manager, or designee, upon review of A-E's current audited financial report. If A-E's SIR is approved, A-E, in addition to, and without limitation of, any other indemnity provision(s) in this CONTRACT, agrees to all of the following:

1. In addition to the duty to indemnify and hold the COUNTY harmless against any and all liability, claim, demand or suit resulting from A-E's, its agents, employee's or subcontractor's performance of this CONTRACT, A-E shall defend the COUNTY at its sole cost and expense with counsel approved by Board of Supervisors against same; and
2. A-E's duty to defend, as stated above, shall be absolute and irrespective of any duty to indemnify or hold harmless; and
3. The provisions of California Civil Code Section 2860 shall apply to any and all actions to which the duty to defend stated above applies, and the A-E's SIR provision shall be interpreted as though the A-E was an insurer and the COUNTY was the insured.

3.1.4 If the A-E fails to maintain insurance acceptable to the COUNTY for the full term of this CONTRACT, the COUNTY may terminate this CONTRACT.

A. Qualified Insurer

1. The policy or policies of insurance must be issued by an insurer with a minimum rating of A- (Secure A.M. Best's Rating) and VIII (Financial Size Category as determined by the most current edition of the **Best's Key Rating Guide/Property-Casualty/United States or ambest.com**). It is preferred, but not mandatory, that the insurer be licensed to do business in the state of California (California Admitted Carrier).

If the insurance carrier does not have an A.M. Best Rating of A-/VIII, the CEO/Office of Risk Management retains the right to approve or reject a carrier after a review of the company's performance and financial ratings.

2. The policy or policies of insurance maintained by the A-E shall provide the minimum limits and coverage as set forth below:

<u>Coverage</u>	<u>Minimum Limits</u>
Commercial General Liability	\$1,000,000 per occurrence

	\$2,000,000 aggregate
Automobile Liability including converge for owned, non-owned and hired vehicles	\$1,000,000 per occurrence
Workers' Compensation	Statutory
Employers' Liability Insurance	\$1,000,000 per occurrence
Professional Liability	\$1,000,000 per claims made or per occurrence \$2,000,000 aggregate
Environmental/Pollution Liability* <i>*(Optional coverage to be required only when hazardous materials are involved. If required, A-E will be notified by COUNTY).</i>	\$1,000,000 per claims made or occurrence

B. Required Coverage Forms

1. The Commercial General Liability coverage shall be written on Insurance Services Office (ISO) form CG 00 01, or a substitute form providing liability coverage as broad.
2. The Business Auto Liability coverage shall be written on ISO form CA 00 01, CA 00 05, CA 00 12, CA 00 20, or a substitute form providing liability coverage as broad.

C. Required Endorsements

1. The Commercial General Liability policy shall contain the following endorsements, which shall accompany the Certificate of Insurance:
 - a. An Additional Insured endorsement using ISO form CG 2010 or CG 2033 or a form at least as broad naming the ***County of Orange, Orange County Flood Control District, and their respective elected and appointed officials, officers, employees and agents*** as Additional Insureds, or provide blanket coverage, which will state ***AS REQUIRED BY WRITTEN AGREEMENT.***
 - b. A primary non-contributing endorsement using ISO form CG 20 01 0413, or a form at least as broad evidencing that A-E's insurance is primary and any insurance or self-insurance maintained by the County of Orange shall be excess and non-contributing.
2. *(Optional coverage to be required only when hazardous materials are involved. If required A-E will be notified by COUNTY).* The Pollution Liability policy shall contain the following endorsements, which shall accompany the Certificate of Insurance:
 - a. An Additional Insured endorsement naming the ***County of Orange, Orange County Flood Control District, and their respective elected and appointed officials, officers, employees and agents*** as Additional Insureds.

- b. A primary non-contributing endorsement evidencing that A-E's insurance is primary and any insurance or self-insurance maintained by the County of Orange shall be excess and non-contributing.
3. The Workers' Compensation policy shall contain a waiver of subrogation endorsement waiving all rights of subrogation against **the County of Orange, Orange County Flood Control District, and their respective elected and appointed officials, officers, employees and agents**, or provide blanket coverage, which will state **AS REQUIRED BY WRITTEN AGREEMENT**.
4. All insurance policies required by this CONTRACT shall waive all rights of subrogation against the County of Orange, its elected and appointed officials, officers, employees and agents when acting within the scope of their appointment or employment.
5. A-E shall notify COUNTY in writing within thirty (30) days of any policy cancellation and ten (10) days for non-payment of premium and provide a copy of the cancellation notice to COUNTY. Failure to provide written notice of cancellation may constitute a material breach of the CONTRACT, upon which the COUNTY may suspend or terminate this CONTRACT.
6. If A-E's Professional Liability policy is a claims-made policy, A-E shall agree to maintain professional liability coverage for two (2) years following completion of CONTRACT.
7. The Commercial General Liability policy shall contain a severability of interests clause (standard in the ISO CG 001 policy).
8. Insurance certificates should be forwarded to the agency/department address listed on the solicitation.
9. If the A-E fails to provide the insurance certificates and endorsements within seven (7) days of notification by CEO/Purchasing or the agency/department purchasing division, award may be made to the next qualified vendor.
10. COUNTY expressly retains the right to require A-E to increase or decrease insurance of any of the above insurance types throughout the term of this CONTRACT. Any increase or decrease in insurance will be as deemed by County of Orange Risk Manager as appropriate to adequately protect COUNTY.
11. COUNTY shall notify A-E in writing of changes in the insurance requirements. If A-E does not deposit copies of acceptable Certificates of Insurance and endorsements with COUNTY incorporating such changes within thirty (30) days of receipt of such notice, this CONTRACT may be in breach without further notice to A-E, and COUNTY shall be entitled to all legal remedies.
12. The procuring of such required policy or policies of insurance shall not be construed to limit A-E's liability hereunder nor to fulfill the indemnification

reduce the policy coverage and limits available from the insurer.

4. INDEMNITY/COMPLIANCE

4.1 A-E shall indemnify, defend with counsel approved in writing by COUNTY, and hold harmless, the COUNTY, its agents, officers, and employees from employer sanctions and any other liability which may be assessed against A-E or the COUNTY or both in connection with any alleged violation of any Federal or State statutes or regulations pertaining to the eligibility for employment of any persons performing work under this CONTRACT.

4.2 All PROJECTS/SERVICES submitted by A-E shall be complete and shall be carefully checked prior to submission. A-E understands that COUNTY's checking is discretionary, and A-E shall not assume that COUNTY will discover errors and/or omissions. If COUNTY discovers any errors or omissions prior to approving A-E's PROJECTS/SERVICES, the PROJECTS/SERVICES will be returned to A-E for correction. Should COUNTY or others discover errors or omissions in the work submitted by A-E after COUNTY's approval thereof, COUNTY's approval of A-E's PROJECTS/SERVICES shall not be used as a defense by A-E.

4.3 Indemnification

4.3.1 A-E agrees to, indemnify, defend with counsel approved in writing by COUNTY, and hold COUNTY, their elected and appointed officials, officers, employees, agents and those special districts and agencies which COUNTY'S Board of Supervisors acts as the governing Board ("COUNTY INDEMNITEES") harmless from any claims, demands or liability of any kind or nature, including but not limited to personal injury or property damage, arising out of, pertaining to, or relating to the negligence, recklessness, or willful misconduct of the A-E. If judgment is entered against A-E and COUNTY by a court of competent jurisdiction because of the concurrent active negligence of A-E and COUNTY or COUNTY INDEMNITEES, A-E and COUNTY agree that liability will be apportioned as determined by the court. Neither party shall request a jury apportionment. Notwithstanding anything stated above, nothing contained herein shall relieve A-E of any insurance requirements or obligations created elsewhere in this CONTRACT.

4.4 Bills and Liens

4.4.1 A-E shall pay promptly all indebtedness for labor, materials and equipment used in performance of the work. A-E shall not permit any lien or charge to attach to the work or the premises, **but if any does so attach, A-E shall promptly procure its release and, in accordance with the requirements of the indemnification paragraph above, indemnify, defend, and hold COUNTY harmless and be responsible for payment of all costs, damages, penalties and expenses arising from or related thereto.**

4.5 Compliance with Laws

4.5.1 A-E represents and agrees that services to be provided under this CONTRACT shall fully comply, at A-E's expense, with all standards, laws, statutes, restrictions, ordinances, requirements, and regulations (collectively "laws"), including, but not limited to those issued by COUNTY in its governmental capacity and all other laws

applicable to the PROJECTS/SERVICES at the time PROJECTS/SERVICES are provided to and accepted by COUNTY.

- 4.5.2** A-E acknowledges that COUNTY is relying on A-E for such compliance, and pursuant to the requirements of the indemnification paragraph above, **A-E agrees that it shall defend, indemnify and hold COUNTY and COUNTY INDEMNITEES harmless from all liability, damages, costs and expenses arising from or related to a violation of such laws.**

5. TERMINATION

5.1 Termination of Contract for Cause

- 5.1.1** If A-E breaches any of the covenants or conditions of this CONTRACT, COUNTY shall have the right to terminate this CONTRACT upon ten (10) days written notice prior to the effective day of termination.

- 5.1.2** A-E shall have the opportunity to cure the alleged breach prior to termination.

- 5.1.3** In the event the alleged breach is not cured by A-E prior to termination, all work performed by A-E pursuant to this CONTRACT, which work has been reduced to plans or other documents, shall be made available to COUNTY.

5.2 Termination for Convenience

- 5.2.1** Notwithstanding any other provision of the CONTRACT, COUNTY may at any time, and without cause, terminate this CONTRACT in whole or in part, upon not less than seven (7) calendar days' written notice to the A-E. Such termination shall be effected by delivery to the A-E of a notice of termination specifying the effective date of the termination and the extent of the Work to be terminated.

- 5.2.2** A-E shall immediately stop work in accordance with the notice and comply with any other direction as may be specified in the notice or as provided subsequently by COUNTY.

- 5.2.3** COUNTY shall pay the A-E for the Work completed prior to the effective date of the termination, and such payment shall be the A-E's sole remedy under this CONTRACT.

- 5.2.4** Under no circumstances will A-E be entitled to anticipatory or unearned profits, consequential damages, or other damages of any sort as a result of a termination or partial termination under this Paragraph.

- 5.2.5** A-E shall insert in all subcontracts that the subcontractor shall stop work on the date of and to the extent specified in a notice of termination, and shall require subcontractors to insert the same condition in any lower tier subcontracts.

5.3 Breach of Contract

- 5.3.1** The failure of the A-E to comply with any of the provisions, covenants or conditions of this CONTRACT shall be a material breach of this CONTRACT. In such event, in addition to any other remedies available at law, in equity, or otherwise specified in this CONTRACT, the COUNTY may:

- a. afford the A-E written notice of the breach and ten (10) calendar days or such shorter time that may be specified in this CONTRACT within which to cure the breach;
- b. discontinue payment to the A-E for and during the period in which the A-E is in breach; and
- c. offset those monies disallowed pursuant to the above, against any monies billed by the A-E but yet unpaid by the COUNTY.

5.4 Default

- 5.4.1** In the event any equipment or service furnished by the A-E in the performance of this CONTRACT should fail to conform to the specifications therein within one (1) calendar year from the COUNTY's acceptance of the equipment or service, or any performance period specifically specified within the specifications or CONTRACT, whichever is greater, the COUNTY may reject same, and it shall become the duty of the A-E to reclaim and remove the items without expense to the COUNTY and to immediately replace all such rejected equipment or service with others conforming to such specifications, provided that should the A-E fail, neglect or refuse to do so within one hundred and twenty (120) calendar days, the COUNTY shall have the right to purchase on the open market a corresponding quantity of any such equipment or service and to deduct from any monies due or that may thereafter become due to the A-E the difference between the price specified in this CONTRACT and the actual cost to the COUNTY.
- 5.4.2** In the event the A-E shall fail to make prompt delivery as specified of any equipment or service, the same conditions as to the rights of the COUNTY to purchase on the open market and to reimbursement set forth above shall apply, except as otherwise provided in this CONTRACT.
- 5.4.3** In the event of the cancellation of this CONTRACT, either in whole or in part, by reason of the default or breach by the A-E, any loss or damage sustained by the COUNTY in procuring any equipment or service which the A-E agreed to supply under this CONTRACT shall be borne and paid for by the A-E.
- 5.4.4** Default shall include failure to carry out any of the requirements of this CONTRACT, including, but not limited to not providing enough properly skilled workers or proper materials, persistently disregarding laws and or ordinances, not proceeding with the PROJECTS/SERVICES as agreed to herein, or otherwise substantially violating any provision of this CONTRACT.
- 5.4.5** Upon termination of the CONTRACT with A-E, the COUNTY may begin negotiations with a third-party A-E to provide goods and/or PROJECTS/SERVICES as specified in this CONTRACT.
- 5.4.6** The right of either party to terminate this CONTRACT hereunder shall not be affected in any way by its waiver of or failure to take action with respect to any previous default.

6. MISCELLANEOUS

6.1 Laws to be Observed

6.1.1 A-E is assumed to be familiar with and, at all times, shall observe and comply with all federal, state and local laws, ordinances and regulations in any manner affecting the conduct of the PROJECTS/SERVICES.

6.2 Award of Construction Contract and Other Future Contracts

6.2.1 A-E is hereby informed that provisions of the Public Contract Code, the Political Reform Act of 1974, other statutes, regulations, and COUNTY policy prohibit, as an impermissible conflict of interest, the award of a contract for the construction of the project(s) on which A-E performed architectural-engineering services under this A-E CONTRACT. A-E is hereby informed that these statutes and regulations could also prohibit the award to A-E of design or other contracts on future phases related to tasks performed by A-E under this CONTRACT. This prohibition applies also to a subcontractor of or parent company of the firm that performed architectural-engineering tasks under this CONTRACT.

6.3 Amendments

6.3.1 No alteration or variation of the terms of this CONTRACT shall be valid unless made in writing and signed by the parties; no oral understanding or agreement not incorporated herein shall be binding on either of the parties; and no exceptions, alternatives, substitutes or revisions are valid or binding on COUNTY unless authorized by COUNTY in writing.

6.4 Successors and Assigns

6.4.1 The terms and provisions of this CONTRACT shall be binding upon and inure to the benefit of the parties hereto and their successors and assigns.

6.5 Entirety

6.5.1 This CONTRACT contains the entire agreement between the parties with respect to the matters provided for herein.

6.6 Severability

6.6.1 If any part of this CONTRACT is held, determined, or adjudicated to be illegal, void, or unenforceable by a court of competent jurisdiction, the remainder of this CONTRACT shall be given effect to the fullest extent reasonably possible.

6.7 Binding Obligation

6.7.1 The PARTIES to this CONTRACT represent and warrant that this CONTRACT has been duly authorized and executed and constitutes the legally binding obligation of their respective organization or entity enforceable in accordance with its terms.

6.8 Governing Law and Venue

6.8.1 This CONTRACT has been negotiated and executed in the State of California and shall be governed by and construed under the laws of the State of California. In the event of any legal action to enforce or interpret this CONTRACT, the sole and exclusive venue

shall be a court of competent jurisdiction located in Orange County, California, and the PARTIES hereto agree to and do hereby submit to the jurisdiction of such court, notwithstanding Code of Civil Procedure, Section 394.

- 6.8.2** The PARTIES specifically agree that by soliciting and entering into and performing PROJECTS/SERVICES under this CONTRACT, the A-E shall be deemed to constitute doing business within Orange County from the time of solicitation of work, through the period when all PROJECTS/SERVICES under this CONTRACT is completed, and continuing until the expiration of any applicable limitations period.

6.9 Child Support Enforcement Requirements

- 6.9.1** All Contractors are required to comply with the child support enforcement requirements of the County of Orange. Failure of the Contractor to comply with all federal, state, and local reporting requirements for child support enforcement or to comply with all lawfully served Wage and Earnings Assignment Orders and Notices of Assignment shall constitute a material breach of the Contract. In order to comply with the child support enforcement requirements of the County of Orange, all bidders/proposers must furnish to the Contract administrator, the Purchasing Agent, or the agency/department Deputy Purchasing Agent:

- A. In the case of an individual Contractor, his/her name, date of birth, Social Security number, and residence address;
- B. In the case of a Contractor doing business in a form other than as an individual, the name, date of birth, Social Security number, and residence address of each individual who owns an interest of 10 percent or more in the Contracting entity;
- C. A certification that the Contractor has fully complied with all applicable federal and state reporting requirements regarding its employees; and
- D. A certification that the Contractor has fully complied with all lawfully served Wage and Earnings Assignment Orders and Notices of Assignment and will continue to so comply.

Failure to cure such breach within 60 calendar days of notice from the COUNTY shall constitute grounds for termination of the Contract.

- 6.9.2** It is expressly understood that this data will be transmitted by COUNTY to governmental agencies charged with the establishment and enforcement of child support orders and for no other purposes.

6.10 Ownership of Documents

- 6.10.1** All data, including but not limited to letters, reports, files, plans, drawings, specifications, proposals, sketches, diagrams and calculations, prepared by A-E and/or anyone acting under the supervision of A-E pursuant to this CONTRACT, shall become the property of COUNTY upon preparation by A-E and may be used by the COUNTY as it may require without additional cost to the COUNTY.

- 6.10.2** COUNTY shall not be limited in any way to its use thereof at any time, including the release of this data to third parties. A-E shall be held harmless for release of such data

as may be prepared or created under this CONTRACT to any third party. If A-E and/or anyone acting under the supervision of A-E should later desire to use any of the data prepared in connection with this CONTRACT, A-E shall first obtain the written approval of COUNTY.

6.11 Confidentiality

6.11.1 All ideas, memoranda, specifications, plans, procedures, drawings, descriptions, and all written or other information submitted to A-E in connection with the performance of this CONTRACT shall be held confidential by A-E and/or anyone acting under the supervision of A-E and shall not, without the prior written consent of COUNTY, be used for any purposes other than the performance of the PROJECTS/SERVICES described in Attachment A, nor be disclosed to any person, partnership, company, corporation or agency, not connected with the performance of the PROJECTS/SERVICES.

6.11.2 Nothing furnished to A-E which is generally known among counties in Southern California shall be deemed confidential.

6.11.3 A-E and/or anyone acting under the supervision of A-E shall not use COUNTY name or insignia, photographs of the work, or any other publicity pertaining to the work in any magazine, trade paper, newspaper, or other medium without the express written consent of COUNTY.

6.12 Publication

6.12.1 No copies of sketches, schedules, written documents, computer based data, photographs, maps or graphs, including graphic art work, resulting from performance or prepared in connection with this CONTRACT, are to be released by A-E and/or anyone acting under the supervision of A-E to any person, partnership, company, corporation, or agency, without prior written approval by the COUNTY, except as necessary for the performance of the services of this CONTRACT. All press contacts, including graphic display information to be published in newspapers, magazines, etc., are to be administered only after COUNTY approval.

6.12.2 The A-E agrees that it will not issue any news releases or make any contact with the media in connection with either the award of this CONTRACT or any subsequent amendment of, or effort under this CONTRACT. A-E must first obtain review and approval of said media contact from the COUNTY through the COUNTY'S Project Manager. Any requests for interviews or information received by the media should be referred directly to the COUNTY. A-E's are not authorized to serve as a media spokespersons for COUNTY projects without first obtaining permission from the COUNTY Project Manager.

6.13 Records and Audit/Inspections

6.13.1 A-E shall keep an accurate record of time expended by A-E and/or consultants employed by A-E in the performance of this CONTRACT.

6.13.2 Within ten (10) days of COUNTY's written request, A-E shall allow COUNTY or authorized State or Federal agencies or any duly authorized representative to have the right to access, examine, audit, excerpt, copy or transcribe any pertinent transaction,

activity, time cards or other records relating to this CONTRACT.

- 6.13.3** A-E shall keep such material, including all pertinent cost accounting, financial records and proprietary data for a period of three (3) years after termination or completion of the CONTRACT or until resolution of any claim or dispute between the PARTIES, whichever is later.
- 6.13.4** Should A-E cease to exist as a legal entity, records pertaining to this CONTRACT shall be forwarded within a reasonable period of time not to exceed sixty (60) days to its successor in interest or surviving entity in a merger or acquisition, or, in the event of liquidation, to COUNTY.
- 6.14 Notices**
- 6.14.1** Any and all notices, requests, demands and other communications contemplated, called for, permitted, or required to be given hereunder shall be in writing, except through the course of the PARTIES' project managers' routine exchange of information and cooperation during the PROJECTS/SERVICES.
- 6.14.2** Any written communications shall be deemed to have been duly given upon actual in-person delivery, if delivery is by direct hand, or upon delivery on the actual day of receipt, or no greater than four (4) calendar days after being mailed by U. S. certified or registered mail, return receipt requested, postage prepaid, whichever occurs first. The date of mailing shall count as the first day.
- 6.14.3** All communications shall be addressed to the appropriate party at the address stated herein or such other address as the parties hereto may designate by written notice from time to time in the manner aforesaid.

For A-E:

GMU Geotechnical, Inc.
23241 Arroyo Vista
Rancho Santa Margarita, CA 92688
Attn: Ali Bastani
Phone: 949-888-6513
E-mail: abastani@gmugeo.com

For COUNTY:

OC Public Works / Infrastructure Programs
300 N. Flower St., Suite 838
Santa Ana, CA 92703
Attn: JoDee Goetz
Phone: 714-647-3917
E-mail: jodee.goetz@ocpw.ocgov.com

cc:

OC Public Works Procurement Services
300 N. Flower St., Suite 838
Santa Ana, CA 92703
Attn: Jennifer Saldana
Phone: 714-667-3292
E-mail: jennifer.saldana@ocpw.ocgov.com

6.15 Attorney's Fees

6.15.1 In any action or proceeding to enforce or interpret any provision of this CONTRACT, or where any provision hereof is validly asserted as a defense, each party shall bear its own attorney's fees, costs and expenses.

6.16 Interpretation

6.16.1 CONTRACT has been negotiated at arm's length and between persons sophisticated and knowledgeable in the matters dealt with in this CONTRACT.

6.16.2 In addition, each PARTY has been represented by experienced and knowledgeable independent legal counsel of their own choosing, or has knowingly declined to seek such counsel despite having the opportunity to do so.

6.16.3 Each PARTY further acknowledges that they have not been influenced to any extent whatsoever in executing this CONTRACT by any other PARTY hereto or by any person representing them, or both.

6.16.4 Accordingly, any rule of law (including California Civil Code Section 1654) or legal decision that would require interpretation of any ambiguities in this CONTRACT against the PARTY that has drafted it is not applicable and is waived.

6.16.5 The provisions of this CONTRACT shall be interpreted in a reasonable manner to affect the purpose of the PARTIES and this CONTRACT.

6.17 Headings

6.17.1 The various headings and numbers herein, the grouping of provisions of this CONTRACT into separate clauses and paragraphs, and the organization hereof are for the purpose of convenience only and shall not limit or otherwise affect the meaning hereof.

6.18 Acceptance

6.18.1 Unless otherwise agreed to in writing by COUNTY acceptance shall not be deemed complete unless in writing and until all the services have actually been received, inspected, and tested to the satisfaction of COUNTY.

6.19 Changes

6.19.1 A-E shall make no changes in the work or perform any additional work without the COUNTY'S specific written approval.

6.20 Assignment

6.20.1 The terms, covenants, and conditions contained herein shall apply to and bind the heirs, successors, executors, administrators and assigns of the parties. Furthermore, neither the performance of this CONTRACT nor any portion thereof may be assigned or sub-contracted by A-E, by any means whatsoever including but not limited to acquisition by merger, without the express written consent of COUNTY. Any attempt by A-E to assign or sub-contract the performance or any portion thereof of this CONTRACT without the express written consent of COUNTY shall be invalid and shall constitute a

breach of this CONTRACT.

6.21 Changes in Ownership

6.21.1 A-E agrees that if there is a change or transfer in ownership, including but not limited to merger by acquisition, of A-E's business prior to completion of this CONTRACT, the new owners shall be required under terms of sale or other transfer to assume A-E's duties and obligations contained in this CONTRACT and to obtain the written approval of COUNTY of such merger or acquisition, and complete the obligations and duties contained in the CONTRACT to the satisfaction of COUNTY. A-E agrees to pay, or credit toward future work, COUNTY's costs associated with processing the merger or acquisition.

6.22 Force Majeure

6.22.1 A-E shall not be assessed with damages or unsatisfactory performance penalties during any delay beyond the time named for the performance of this CONTRACT caused by any act of God, war, civil disorder, employment strike or other cause beyond its reasonable control, provided A-E gives written notice of the cause of the delay to COUNTY within thirty-six (36) hours of the start of the delay and A-E avails himself of any available remedies.

6.23 Calendar Days

6.23.1 Any reference to the word "day" or "days" herein means calendar day or calendar days, respectively, unless otherwise expressly provided.

6.24 Title to Data

6.24.1 All materials, documents, data or information obtained from the COUNTY data files or any COUNTY medium furnished to the A-E in the performance of this CONTRACT, will at all times remain the property of the COUNTY. Such data or information may not be used or copied for direct or indirect use by the A-E after completion or termination of this CONTRACT without the express written consent of the COUNTY.

6.24.2 All materials, documents, data or information, including copies furnished by COUNTY and loaned to A-E for his temporary use, must be returned to the COUNTY at the end of this CONTRACT unless otherwise specified by the DIRECTOR.

6.25 Availability of Funds

6.25.1 The obligation of COUNTY is subject to the availability of funds appropriated for this purpose, and nothing herein shall be construed as obligating the COUNTY to expend or as involving the COUNTY in any contract or other obligation for future payment of money in excess of appropriations authorized by law.

6.26 Contingency of Funding

6.26.1 A-E acknowledges that funding or portions of funding for this CONTRACT may also be contingent upon receipt of funds from, and/or appropriation of funds by, the State of California or other funding sources to COUNTY. If such funding and/or appropriations are not forthcoming, or otherwise limited, COUNTY may immediately terminate or

modify this CONTRACT without penalty.

6.27 Contract Construction

6.27.1 The parties acknowledge that each party and its counsel have reviewed this CONTRACT and that the normal rule of construction to the effect that any ambiguities are to be resolved against the drafting party shall not be employed in the interpretation of this CONTRACT or any amendment or exhibits hereto.

6.28 Conflicts of Interest

6.28.1 A-E or its employees may be subject to the provisions of the California Political Reform Act of 1974 (the "Act"), which (1) requires such persons to disclose any financial interest that may be materially affected by services provided under this CONTRACT, (2) prohibits such persons from making, or participating in making, decisions that could reasonably affect such interest; and (3) may require the filing a Statement of Economic Interest (Form 700).

6.28.2 If subject to the Act, A-E shall conform to all requirements of the Act. Failure to do so shall constitute a material breach and is grounds for immediate termination of this CONTRACT by COUNTY. Pursuant to Section 4.3 "Indemnification", A-E shall indemnify and hold harmless COUNTY for any and all claims for damages resulting from Contractor's violation of this Section.

6.29 Usage

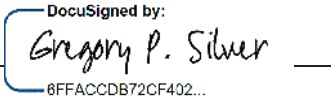
6.29.1 No guarantee is given by the COUNTY to A-E regarding usage of this CONTRACT. The A-E agrees to supply services requested, as needed by the County of Orange, at prices listed in the CONTRACT, regardless of quantity requested.

County of Orange
GMU Geotechnical, Inc.

IN WITNESS WHEREOF, the PARTIES hereto have executed this CONTRACT on the dates opposite their respective signatures:

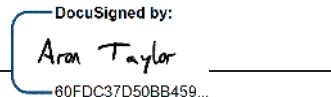
GMU GEOTECHNICAL, INC.,
a California Corporation,

Date: 10/20/2017

By: _____
Signature 
Gregory P. Silver President
Print Name & Title

(If a corporation, the document must be signed by two corporate officers. The 1st must be either Chairman of the Board, President or any Vice President.)

Date: 10/20/2017

By: _____
Signature 
Aron Taylor V.P., Secretary
Print Name & Title

(If a corporation, the 2nd signature must be either the Secretary, an Assistant Secretary, the Chief Financial Officer, or any Assistant Treasurer)

COUNTY OF ORANGE,
a political subdivision of the State of California


Date: _____

By: _____

Print
Name: _____

Title: _____

APPROVED AS TO FORM
Office of the County Counsel
Orange County, California

By: _____
Deputy 

ATTACHMENT A SCOPE OF SERVICES

I. Overview

OC Public Works, on behalf of the various County of Orange Departments (COUNTY), is establishing this on-call Contract for various Architect-Engineer (A-E), and related professional A-E services, on an as-needed basis, for the Discipline(s) listed below. These services may be utilized by any County department. A-E shall provide all labor, materials, tools and equipment required for the services under the Discipline(s).

II. Scope of Work

CONSTRUCTION SERVICES

Personnel Requirements:

A-E will be required to provide Resident Engineers, licensed civil engineer in the State of California, Construction Inspectors and part-time Project Schedulers as required by the scope of each Task Order. The A-E shall provide the necessary personnel, inspection staff, equipment and transportation to facilitate the performance of the intended engineering and inspection services.

Description of Services (activities shall include, but not limited to):

Consultants must have experience, knowledge, and familiarity with Public Works Construction Management Services to include **all County department projects**, but not necessarily be limited to: Public Works Construction Inspection, Public Works Construction Management, Public Works Construction Contract Administration, and OC Waste & Recycling (Landfill) Projects.

A. GEOTECHNICAL SERVICES

The requested services consist, in general, of preparation of Geotechnical Reports to address issues relative to construction of new or rehabilitation of existing roadways, flood control channels, or parks projects. Certain related support services as described herein may also be requested. This General Scope of Work exemplifies the types of work that may be required including, but are not limited to, the following:

- Life cycle costs and rehabilitation/reconstruction methods for pavements
- Geotechnical design of various foundations and/or retaining structures
- Embankment restoration and construction considerations
- Settlement analysis and mitigation
- Liquefaction evaluation and mitigation
- In-situ ground improvements and monitoring
- Dewatering and settlement monitoring
- Slope stabilization and landslide mapping
- Grading observation and related testing
- Soil erosion and sedimentation control and infiltration testing
- Other design criteria as deemed necessary

1) Research

The A-E, as required, shall review existing topographic maps and/or all past pavement, soil and engineering geology investigations. The geotechnical report will discuss past findings as they impact the subject project. COUNTY, as applicable, will provide any readily available topographic or other type of base map for A/E use in mapping geologic units and other features, plotting boring and test pits, and showing the traces of cross-sections. If an adequate base map is not readily available, it will be the responsibility of the A-E to research and/or develop the base map.

2) Technical Knowledge

The A-E shall have knowledge of and be responsible for complying with COUNTY's Standard Plans, Greenbook Specifications, and Caltrans Standards.

3) Site Inspection

The A-E shall visit the project site to identify and evaluate existing field conditions.

4) Utilities Coordination

If field investigation requires any subsurface exploration (digging, boring, and/or drilling), A-E shall provide utility notice coordination with the utility companies through Underground Service Alert (USA) prior to A-E beginning any field works.

5) Entry Permits

Any right of entry requirements or permits necessary to perform field investigation work shall be the responsibility of the A-E.

6) Field Investigations

Any field data collection as deemed necessary and identified in the COUNTY approved Scope of Work will be performed by the A-E in accordance with standard procedures. Field investigations might include, but not be limited to the following:

- a) Bucket auger borings
- b) Hollow stem auger (or other) borings
- c) Test pits
- d) Pavement coring
- e) Engineering geologic mapping
- f) Down hole logging

Locations of all tests shall be plotted on a base map. Logs of all test locations shall be provided. The logs shall be based on observations, measurements, and descriptions of the soil and bedrock composition and structure.

7) Construction Monitoring

Construction monitoring related to earthwork, in-situ ground improvements, and foundations may be required for specific projects.

8) Laboratory Testing

Any laboratory testing necessary to conduct soils surface and subsurface characterization applicable to the needs of the project which are identified in the COUNTY approved Scope of Work or as otherwise approved by the COUNTY, will be performed by the A-E in accordance with County of Orange

Standards and Procedures using California Test Methods (CTM) and/or American Society for Testing and Materials (ASTM) standards.

Caltrans certified technicians and Caltrans laboratory certification may be required to satisfy the needs of the investigation and/or construction monitoring for all projects.

All test results shall be provided as an attachment to the report.

9) Meetings

To ensure proper project development, A-E may be required to attend and conduct status meetings with staff and others to discuss status and/or details of the project. All anticipated meetings should be identified in the Scope of Work. Unanticipated meetings will be considered extra work.

10) Evaluations and Recommendations

The report shall develop and evaluate conceptual recommendations based on existing and ultimate conditions, test results, geotechnical calculations, and preliminary cost estimates. All geotechnical issues and concepts shall be discussed including, but not necessarily limited to issues affecting construction phasing, prioritization, and schedule. The most practical, feasible, and cost effective solution shall be recommended with justifications supporting the recommendation.

11) Specifications

A-E shall be required to include geotechnical specifications for construction as a part of the report when identified and approved by COUNTY as part of the Scope of Work.

12) Draft Report

A-E shall complete a Draft Report for the specific project and submit four (4) copies to County for review. The Draft Report shall include all exhibits and attachments and shall be signed by the responsible professional who worked on the project.

The Draft Report might be expected to include, but not be limited to the following items. Those items that will be required for all reports are shown in ***bold italic*** type.

- **Table of Contents**
- **Introduction, Purpose, and Scope of Work**
- **Site Description**
- Methods of Field Investigation (surface and subsurface)
- Methods of Lab Testing of Samples
- Test Results
- Site Geology (Bedrock and soil units, geologic structures, landslides, etc.)
- **Groundwater**
- Slope Stability Analysis
- **Conclusions**
 - **Concluding statement with reference to purpose of investigation and report**

- Unanticipated conditions encountered
- Deviations from the plan (if any plan exists)
- Bedrock excavating conditions and rippability
- Gross stability: Steepest cut slopes possible with a safety factor equal to or greater than 1:1 for a pseudostatic condition.
- Surficial stability and erodibility of cut slopes and fill slopes
- Soil units
 - Classification
 - Moisture content
 - Sulfate content
 - Shrinkage of excavated soil
 - Stability of temporary cut slopes
 - Compressibility and potential for settlement or consolidation due to fill placement
 - Potential for expansion or collapse
 - Sand equivalence
 - Dry densities
 - Shear strengths (ϕ and c)
- Seismicity
 - Regional
 - Local earthquake effects
 - Ground rupture potential
 - Liquefaction potential
 - Lateral spreading potential
 - Potential for ground lurching
 - Potential for Tsunami
 - Potential for seiche
 - Seismically included landsliding or rockfall
- **Recommendations**
 - Methods of excavation by equipment and/or blasting
 - Slope ration (H:V) and maximum height of temporary cut slopes during construction
 - Stabilization of interim cut slopes (if necessary)
 - Slope ratio (H:V) and maximum height of temporary cut slopes during construction
 - Shoring load, slope gradients, and stabilization of temporary cut slopes
 - Slope ratio (H:V) and maximum height of fill slopes
 - Key and bench recommendations for constructing fill slopes
 - Terrace drains and downdrains
 - Removal of unsuitable material
 - Disposal of oversized material
 - Preparation of natural ground to receive fill
 - Suitability of native soils for use as backfill
 - Relative compaction of engineered fill and natural subgrade
 - Subdrains
 - Engineering and geologic inspections during construction for competence of materials, stability of cut slopes and safety
 - Construction considerations
 - Buttress fills or stabilization fills
 - Drainage and erosion control during construction

- Foundation recommendations
- **Illustrations**
 - **Project location map**
 - Regional fault and seismicity map
 - Geotechnical map showing
 - Existing topography and existing structural features
 - Proposed design
 - Distribution and explanation of geological map units (soil and Bedrock units, geologic structures, and landslides)
 - Locations of test-pits and borings
 - Trace of geotechnical cross-sections
 - Geotechnical cross-sections
 - Boring logs and test-pit logs
 - Summary table of major cut slopes and fill slopes
 - Slope numbers
 - Cross-section reference
 - Slope height and slope ratio (H:V)
 - Slope type and direction faced by slope
 - Geologic condition
 - Remarks
 - References
- **Authentication**
 - **Original ink signatures of the responsible civil engineer and/or the geotechnical engineer and the engineering geologist who worked on the project**

13) Soil Boring Permit Requirements

All contracted work requiring permits, must comply with the County of Orange Health Care Agency Environmental Health Division regulations and/or County Property Permits regulations. The A-E will be responsible for preparing all permit application documents and obtaining permits.

B. MATERIALS TESTING

The requested services consist, in general, of materials testing to assure compliance with contract specifications for construction of new or rehabilitation of existing roadways, flood control channels, parks, or other infrastructure projects. Certain related support services as described herein may also be requested. This General Scope of Work contains the types of work that may be required including, but not limited to, the following:

1) Scope of Work

The requested services consist, in general, of materials testing and evaluation in support of the County's Quality Assurance (QA) program to determine the suitability of materials used for the construction or rehabilitation of existing roadways, bridges, retaining walls, flood control channels and other projects. The following is the typical testing that may be required, but not limited to:

- Portland Cement Concrete sampling and testing
- Steel/rebar weld and splice testing and inspection

- Asphalt concrete testing and evaluation
- Cast In-Place Drilled Hole (CIDH) pile testing and inspection
- In-situ ground improvement testing and inspection
- Construction rock materials testing
- Subgrade, base and asphalt compaction testing and grading inspection
- Concrete coring, asphalt concrete forensic investigation and related testing
- Other specialized testing, including profilograph and skid testing, as deemed necessary

Materials testing in the field and/or laboratory will be performed as directed by the COUNTY Materials Engineer or his/her delegated representative. Testing will be performed in accordance with County Standards and Procedures using California Test Methods (CTM), American Society for Testing and Materials (ASTM) and/or American Association of State Highway and Transportation Officials (AASHTO) testing. A-E shall be responsible for complying with County of Orange Standard Plans, Greenbook Specifications, Caltrans Standards, ASTM Standards, AASHTO Standards and APWA Standards.

Caltrans technician and laboratory certifications may also be necessary to satisfy the needs of materials testing for Caltrans-funded projects. In addition, Concrete and Cement Reference Laboratory (CCRL) and/or AASHTO re:source accreditation, including ASTM D3666, may be required for Federal Aviation Administration (FAA) or Federally-funded projects identified by the County.

A-E shall submit test results to the County Materials Laboratory conforming to the following reporting schedule:

One Working Day - Compaction and maximum density for materials sampled at the job site

Two Working Days - Sieve Analysis, Sand Equivalent and Cleanness Value for aggregate that is sampled at material plants

Three Working Days - Sieve Analysis, Sand Equivalent and Cleanness Value for soils and aggregates are sampled at the job site

Four Working Days - "R" Value and asphalt concrete extraction

When sampling products such as Portland cement concrete (PCC), cement-treated base (CTB), hot mix asphalt (HMA), and other such materials, the time of sampling shall be varied as much as possible in order to avoid a predictable sampling routine.

Test results shall be signed and stamped by the responsible civil engineer, geotechnical engineer, and/or engineering geologist who worked on the project. The A-E must follow and comply with all applicable requirements of the California Construction and General Industry Safety Orders, the California Occupational Safety and Health Act (Cal-OSHA), County of Orange's Safety and Loss Prevention Program and all applicable laws and regulations.

The County requirements of a private laboratory to perform testing within the jurisdiction of the County are:

1. California Test Methods shall be used for both field and laboratory testing (unless other testing procedures are approved by the County Materials Engineer and listed on the project plans or in the project's provisions).
2. Field testing procedures are observed and found to be satisfactory by the County Independent Assurance Testing (IAT) staff.
3. Laboratory testing procedures are observed (if necessary) and found to be satisfactory by the IAT staff.
4. Laboratory testing equipment and field testing equipment has been calibrated within the last year and is found to be in good working condition.

2) Independent Assurance Testing

County Materials Laboratory may perform occasional Independent Assurance Testing to evaluate the A-E's adherence to required specifications, standards and procedures both in the field and at the A-E's laboratory facility. Should A-E not be performing in accordance with those criteria or other criteria that may be established, their work will not be accepted or compensated; and, depending on the frequency and/or severity of the deficiency, services may be terminated by County.

County of Orange
 GMU Geotechnical, Inc.

ATTACHMENT B
COST/COMPENSATION

I. COMPENSATION: This is a specified rates of compensation usage CONTRACT between COUNTY and A-E for On-Call Construction Services - Geotechnical & Materials Testing as set forth in Attachment A, "Scope of Work".

A-E agrees to accept the specified compensation as set forth in this CONTRACT as full remuneration for performing all services and furnishing all staffing, labor, vehicles, equipment, tools, materials, overhead, travel, etc. required, for any reasonably unforeseen difficulties which may arise or be encountered in the execution of the services until acceptance, for risks connected with the services, and for performance by A-E of all its duties and obligations hereunder. A-E shall only be compensated as set forth herein below for work performed in accordance with the Scope of Work. **COUNTY shall have no obligation to pay any sum in excess of the Total CONTRACT Amount specified herein below unless authorized by amendment in accordance with Paragraphs 6.3 and 6.19 of the COUNTY CONTRACT Terms and Conditions.**

II. PRICING: Payment shall be made in accordance with the provisions of this CONTRACT. Partial progress payments may be allowed at the discretion of the COUNTY Project Manager. Payment shall be as follows:

A. Classification Rates:

GMU GEOTECHNICAL, INC.	
Classification Titles	Hourly Rate
Principal/Director	\$ 258.00
Associate Engineer or Geologist	\$ 180.00
Registered Special Inspector	\$ 167.00
Senior Engineer or Geologist	\$ 166.00
Project Engineer or Geologist	\$ 150.00
Drafting	\$ 139.00
Senior Staff Engineer or Geologist	\$ 137.00
Senior Engineering Technician	\$ 134.00
Staff Engineer or Geologist	\$ 109.00
Document Preparation and Project Services	\$ 94.00
Laboratory Testing	\$ 94.00
Staff Engineering Technician	\$ 77.00
Prevailing Wage Rates for Field Staff	
Staff Engineering Technician	\$ 186.65
Senior Engineering Technician	\$ 186.65
Registered Special Inspector	\$ 186.65

B. Total CONTRACT Amount Shall Not Exceed: \$1,500,000

III. PRICE INCREASES/DECREASES: No price increases will be permitted during the term of this CONTRACT. All price decreases will automatically be extended to COUNTY.

- IV. FIRM DISCOUNT AND PRICING STRUCTURE:** A-E guarantees that prices quoted are equal to or less than prices quoted to any other local, State or Federal government entity for services of equal or lesser scope. A-E agrees that no price increases shall be passed along to COUNTY during the term of this CONTRACT not otherwise specified and provided for within this CONTRACT.
- V. A-E'S EXPENSE:** A-E will be responsible for all costs related to photo copying, telephone communications and fax communications while on COUNTY sites during the performance of work and services under this CONTRACT.
- VI. REIMBURSABLE ITEMS:** Reimbursable items are non-salary items that are not included in the Scope of Work but necessary for completion of the work and must be authorized in advance by the COUNTY Project Manager. A-E may be entitled to reimbursement for the following, upon prior approval by COUNTY:
- 1) The actual costs of special equipment to be rented, leased or purchased by A-E for use exclusively in the performance of the Scope of Services, to the extent such rental, lease, purchase and costs have been approved in writing by the COUNTY Project Manager.
 - 1) Printing expenses paid to outside contractors; to the extent such contractors and reproduction rates have been approved by the COUNTY Project Manager.
 - 2) Other actual costs and/or payments specifically approved and authorized in writing by the COUNTY Project Manager and actually incurred by A-E in performance of this Contract.
 - 3) Travel costs shall only be reimbursed if approved in advance in writing by COUNTY Project Manager and are subject to the following restrictions:
 - a) Reimbursement of mileage for the business use of a personal vehicle during the conduct of business within the Scope of Services of this CONTRACT shall be based on the Internal Revenue Service Standard Mileage Rate in effect at the time. Mileage between the A-E's "Home Based" office location and COUNTY location, as well as mileage within COUNTY property will not be reimbursed.
 - b) Cost of "Home Based" Xerox copies, faxes, and other supplies and materials associated with them will not be reimbursed.
 - c) Cost of cellular phones, cell phone usage plans and usage minutes, and other mobile communication devices will not be reimbursed.
 - d) All reimbursable expenses must be itemized on A-E invoice(s) and documented with receipts. Receipts for reimbursable expenses must be submitted with all A-E invoices. Invoices for reimbursable expenses without back-up receipts will not be paid. A-E is responsible for submitting reimbursable invoices in a format that is acceptable to the COUNTY. Reimbursable items shall be charged at cost. Any third-party or subcontractor services shall also be charged at cost; no mark-ups will be allowed.
- VII. PAYMENT TERMS:** Invoices are to be submitted in monthly arrears, after services have been completed, to the address specified below. Payment will be net thirty (30) days after receipt of an invoice in a format acceptable to the COUNTY, as applicable. Invoices shall be verified and approved by COUNTY and subject to routine processing requirements. The responsibility for providing an acceptable invoice to COUNTY for payment rests with A-E. Incomplete or incorrect invoices are not acceptable and will be returned to the A-E for correction.

County of Orange
GMU Geotechnical, Inc.

Billing shall cover services and/or goods not previously invoiced. The A-E shall reimburse the COUNTY for any monies paid to the A-E for goods or services not provided or when goods or services do not meet the CONTRACT requirements.

Payments made by COUNTY shall not preclude the right of COUNTY from thereafter disputing any items or services involved or billed under this CONTRACT and shall not be construed as acceptance of any part of the goods or services.

VIII. INVOICING INSTRUCTIONS: The A-E will provide an invoice on the A-E's letterhead. Each invoice will have a unique number and will include the following information:

- A. A-E's name and address
- B. A-E's remittance address, if different from (A), above
- C. Name of COUNTY agency/department
- D. Delivery/service address
- E. CONTRACT number
- F. Service Date
- G. Description of Services
- H. Total
- I. Taxpayer ID number

Invoices and support documentation are to be forwarded to:

TBA – Per Contract Task Order

A-E has the option of receiving payment directly to their bank account via an Electronic Fund Transfer (EFT) process in lieu of a check payment. Payment made via EFT will also receive Electronic Remittance Advice with the payment details via email. An email address will need to be provided to the COUNTY via an EFT Authorization Form. To request a form, please contact the DPA.

ATTACHMENT C
STAFFING PLAN1. A-E KEY PERSONNEL

Name	Classification/Designation	Years of Experience	Licenses/Certifications (include license number)
S. Ali Bastani	Director of Engineer/PM-Project Geotechnical Engineer	24	State of California PE 53924, GE 2458
Gregory Silver	Principal Engineer/ QA Officer	33	State of California PE 47853, GE 2336
Aron Taylor	Principal Geologist/Project Geologist	16	State of California CEG 2455
Norm Biehn	Special Inspector Manager/Project Inspector	20	County of Orange Reg. #2068
Roger Schlierkamp	Director of Pavement Engineering/Project Pavement Engineer	6	State of California PE 81529
Bob Mutchnick	Director of Engineering Seismological Services/Construction Monitoring Officer	33	State of California CEG 1789

A-E understands that the personnel represented as assigned to the CONTRACT must remain working on the CONTRACT throughout the duration of the CONTRACT unless otherwise requested or approved by the COUNTY. Substitution or addition of A-E's key personnel in any given category or classification shall be allowed only with prior written approval of the COUNTY's Project Manager. **Note: The written approval of substituted A-E Key Personnel is for departmental use only and shall not be used for auditing purposes outside OC Public Works or other County department.**

A-E may reserve the right to involve other A-E personnel, as their services are required. The specific individuals will be assigned based on the need and timing of the service/classification required. Assignment of additional key personnel shall be subject to COUNTY Project Manager written approval. **Note: The written approval of additional A-E Key Personnel is for departmental use only and shall not be used for auditing purposes outside OC Public Works or other County Department.** COUNTY reserves the right to have any A-E personnel removed from providing services to COUNTY under this CONTRACT. COUNTY is not required to provide any reason for the request for removal of any A-E personnel.

2. SUBCONTRACTOR(S) (IF APPLICABLE)

Listed below are subcontractor(s) anticipated by A-E to perform services specified in Attachment A. Substitution or addition of A-E's subcontractors in any given project function shall be allowed only with prior written approval of the COUNTY Project Manager.

Company Name & Address	Contact Name and Telephone Number	Project Function
2R Drilling, Inc. 3968 Chino Ave. Chino, CA 91710	Julie Serl 909-465-1765	Drilling Subcontractor
Gregg Drilling & Testing, Inc. 2726 Walnut Ave. Signal Hill, CA 90755	Joanna McKeehan 562-427-6899	CPT and Drilling Subcontractor

County of Orange
GMU Geotechnical, Inc.

Specialized Testing 10600 Pioneer Blvd. Santa Fe Spring, CA 90670	Tim Foster 562-903-0032	Material Testing
Geoboden, Inc. 5 Hodgenville Irvine, CA 92620	Shah Radvar 949-872-9565	Drilling Subcontractor