Agreement No. XXXX

Name of Service Provider

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**Rider A**

**GEOTECHNICAL INVESTIGATION SPECIFICATION FOR**

**THE CALIFORNIA STATE UNIVERSITY**

Consultant shall provide to the California State University a standard **geotechnical** and geologic seismic investigation and report, for the purpose of providing the project architect and his structural engineer adequate information to design the subject project to meet all current codes and physical conditions. Reasonable and normal interface with the project architect will be required as part of this service. This agreement shall include, but not be limited to, the following work at the project site, which shall be considered Phase I of a possible two phase service.

In order to obtain the appropriate **geotechnical** information required, approximately <# of borings.> borings of approximate depth of <approximate depth of borings> feet will be made in locations coordinated by the campus personnel.

To evaluate subsurface soil conditions, Consultant shall conduct the following laboratory tests on site soil samples acquired from boring operations:

1. Visual classifications as per unified soils classification system.
2. Moisture content of undisturbed soils at various depths.
3. Field densities of undisturbed samples at various depths.
4. Plasticity and sieve analyses of representative samples.
5. Unconfined compression tests of suitable samples.

Consultant shall analyze the results of the aforementioned borings and tests and formulate recommendations into a report suitable for providing design criteria for foundation support and earthwork construction of the subject project. Certain items may require additional post schematic design information prior to design completion and shall then be addressed in Phase II, building specific **geotechnical** report and which will be specifically authorized by the Trustees. The Consultant shall address in Phase I the following:

1. Description of subsurface conditions encountered in the boring and tests.
2. Recommendations for site preparation and grading operations.
3. Appropriate foundation systems for proposed structure.
4. Allowable bearing pressure for spread and continuous foundations.
5. Anticipated total and differential settlements for foundation system used.
6. Allowable passive pressures and coefficient of friction for existing soils.
7. Allowable equivalent fluid pressure (active) for retaining structures.
8. Special recommendations for expansive soils (if needed).
9. Allowable vertical and lateral capacity of piles (if needed).
10. Settlement of pile foundation (if needed).
11. Numerical coefficient for site structure resonance.
12. Characteristic site period.
13. Sub-grade reaction (for paving work).

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The Consultant shall provide periodic consultation with the Trustees’ representative during the design phase of the subject project. The Consultant’s review of the construction documents relating to foundation and earthwork construction for conformance with recommendations provided in the above report will be part of the **geotechnical** investigation work.

Additionally, the **geotechnical** engineer shall be available for construction services in regards to the project, but such services are not included in this **geotechnical** investigation agreement.

Provide all service under this Agreement for an amount not to exceed the contract amount indicated on the Service Agreement regardless of Architect’s cost in performing these services. The maximum amount indicated on the Service Agreement shall be payable as stated in the following provision which is marked with an “X”:

(The provision which is not so marked shall not apply to this Agreement.)

[ ]  1. Single, lump sum payment. Architect shall be paid in a single, lump sum payment in arrears upon completion of all work under this Agreement to the satisfaction of the Trustees.

[ ]  2. Progress payments. Architect shall be paid in multiple payments in arrears for work performed to the satisfaction of the Trustees as more particularly specified in Progress Payment Attachment which by this reference is made a part of this Agreement**.**

End of Rider A