

University of California, Merced  
Design, and Construction  
June 2014

ADVERTISEMENT FOR REQUEST FOR STATEMENTS OF QUALIFICATIONS  
FOR  
GEOTECHNICAL ENGINEERING SERVICES

The Merced campus of the University of California requests that a qualified engineering and with experience in geotechnical engineering services submit written statements of qualifications for Professional Geotechnical Engineering Services.

SERVICES DESCRIPTION

The Geotechnical Engineering Services include performing geotechnical engineering services for the proposed UC Merced 2020 project development area as depicted on the attached Campus site plan.

The UC Merced campus is committed to accurately determining the subsurface soils conditions within the proposed development area. These services shall evaluate the site subsurface soil and groundwater conditions in order to provide geotechnical engineering recommendations for the project design. The scope of services is to include soil borings, laboratory testing and analysis of soil samples, preparing reports including design recommendations for future building, infrastructure and site improvement construction, and preparing profiles of the subsurface soil conditions. As part of this commitment, the University may retain the services of this geotechnical engineering consultant to review the Developer's future project site specific geotechnical reports and design in support of the projects' specific development for proposed buildings, landscape and infrastructure. Additionally, geotechnical engineering services on other parts of the Campus may also be included as part of this scope. The University's geotechnical engineering consultant will be precluded from providing any services to the development team planning and designing the project improvements.

The Request for Statement of Qualifications (RFQ) for this project will be available at <http://www.ucmerced.edu/rfp-rfq> beginning on Thursday, June 19, 2014. Nine (9) bound copies and one (1) unbound copy of the submittal are required and they must be delivered to the address below no later than 1:00 P.M. Wednesday July 9, 2014.

Please address submittals to:

*Overnight delivery:* Associate Vice Chancellor, Thomas E. Lollini, FAIA  
Design + Construction  
University of California, Merced

767 E. Yosemite Ave., Ste C  
Merced, CA 95340

*US Mail:*

Associate Vice Chancellor, Thomas E. Lollini, FAIA  
Design + Construction  
University of California, Merced  
5200 North Lake Road  
Merced, CA 95343

The University of California is an Equal Opportunity Employer. Every effort will be made to ensure that all persons have equal access to contracts and other business opportunities with the University within the limits imposed by law or University policy. Each Candidate Firm may be required to show evidence of its equal employment opportunity policy.

# Request for Statements of Qualifications For Geotechnical Engineer

## **University of California, Merced**

### PROJECT INFORMATION:

- Advertisement for Services
- Service Description

### PROFESSIONAL SERVICES:

- Scope of Services
- Joint Venture/Associations

### SELECTION PROCESS:

- Selection Criteria
- Selection Process
- Submittal Format

### ATTACHMENTS:

- University of California, Merced Statement of Qualifications Form
- Request for Supplemental Information Form
- Registration Form

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The UC Merced campus is committed to accurately determining the subsurface soils conditions within the proposed development area. These services shall evaluate the site subsurface soil and groundwater conditions in order to provide geotechnical engineering recommendations for the project design. The scope of services is to include soil borings, laboratory testing and analysis of soil samples, preparing reports including design recommendations for future building, infrastructure and site improvement construction, and preparing profiles of the subsurface soil conditions. As part of this commitment, the University may retain the services of this geotechnical engineering consultant to review the Developer's future project site specific geotechnical reports and design in support of the projects' specific development for proposed buildings, landscape and infrastructure. Additionally, geotechnical engineering services on other parts of the Campus may also be included as part of this scope. The University's geotechnical engineering consultant will be precluded from providing any services to the development team planning and designing the project improvements.

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## SCOPE OF SERVICES

The University is seeking to contract with a geotechnical engineering firm to perform Campus Geotechnical Engineering Services for the proposed UC Merced 2020 project development area as depicted on the attached Campus site plan. These services may be required for a period of (5) years (the period starts from the date of the contract) for additional consultation to the Campus including peer review of the Developer's future project site specific geotechnical reports in support of the Developer's project specific programming, design, and through the post-construction period for buildings, landscape and infrastructure projects. Additionally, project level geotechnical engineering services on other parts of the Campus may also be included as part of this scope. The University's geotechnical engineering consultant will be precluded from providing any services to the 2020 development team planning and designing the project improvements.

These services shall evaluate the site subsurface soil and groundwater conditions in order to provide geotechnical engineering recommendations for the project design. Program level geotechnical engineering services include soil borings, laboratory testing and analysis of soil samples, preparing reports including design recommendations for future building, infrastructure and site improvement construction, and preparing profiles of the subsurface soil conditions.

The Geotechnical Engineering Services include performing geotechnical engineering services within the proposed UC Merced 2020 project development area as depicted on the attached Campus site plan.

### A. Field Investigation

- Provide the services of an underground utility location service as required by law and Campus policy to identify the location of existing underground structures, utilities and other services. The University will provide the geotechnical engineering consultant available survey maps, infrastructure site plans or other data to aid in the location of known underground items.

- Provide exploratory test borings at approximately the center of each block and other locations depicted on the attached Campus map. Exact soil boring locations are to be verified with the University before proceeding with the work. Additional boring locations may be required in the final scope of work or requested by the Campus based on preliminary boring and soil test results.
- The total number of borings and final depths will be dependent on the characteristic, relative density and type of soils encountered.
- Maintain a log of the soils encountered and obtain samples for visual examination, classification, and laboratory testing.
- Field penetration tests shall be used to evaluate relative density, strength, compression and percolation characteristics of the native soils.

#### B. Laboratory Tests

- Laboratory tests shall be performed at an accredited laboratory on samples retrieved from the exploratory borings to evaluate the density, gradation, strength, compression, and corrosion characteristics of the materials encountered.
- Tests that are presently anticipated include: moisture content; dry unit weight; sieve analysis; direct shear and/or unconfined compressive strength; Atterberg Limits; expansion index; optimum moisture and maximum density relationship; consolidation; pH; minimum resistivity; soluble sulfate; and soluble chloride.

#### C. Analysis and Report Preparation: Laboratory testing, and engineering analyses shall be summarized in an engineering report prepared under the direction of our registered geotechnical engineer containing at least the following:

- A description of the proposed project site, including a vicinity map showing the location of the site and a site plan showing the locations of the exploration points for this study tied to the Campus survey monuments and GPS datum.
- Provide profiles of subsurface soil and groundwater conditions. Drawings should include a summary of the required test results and recommendations.

The approach is anticipated to be similar to the consolidated geotechnical soil boring summary and supporting data prepared by Sandis in 2012 for the upper portion of the Campus that will be made available to the shortlisted firms prior to their interviews.

- A description of the site surface and subsurface conditions encountered during our field investigation, including boring logs.
- A summary of the field exploration and laboratory testing programs.
- Recommendations for site preparation and earthwork grading, including a discussion concerning the use of on-site soils for engineered fill.
- Recommendations for foundation design including bearing capacity of foundation soil for sustained loading and total combined loading including embedment depths and anticipated settlements. Provide general recommendations for 1-2, 3-5 and 6-9 story building foundations incorporating standard spread footings, piers with grade beams, matt slab, post tensioned slabs (for light weight, 1-2 story structures) and other appropriate foundation types.
- Recommendations for frictional coefficient and passive pressure for resistance of lateral loads.
- Recommendations for subgrade preparation for concrete slabs-on-grade, including a modulus of subgrade reaction for on-site soil.
- Recommended 2013 CBC seismic design criteria.
- Comments on liquefaction potential and seismically induced settlement.
- Recommendations for temporary excavations, including temporary slopes and trench backfill.
- Recommended lateral earth pressure for use in the design of retaining structures.
- Comments on the corrosion potential of on-site soils to buried metal and concrete.
- Comments on groundwater conditions encountered and regional groundwater.
- Comments to aid in the design of site drainage including percolation test

results and recharge capacity of the 136 acre 2020 project building subarea.

- Recommendations for site paving sections.
- The Campus may require the geotechnical engineering consultant prepare a summary of all previous and new geotechnical report information for the entire 219 acre 2020 project area that can be provided to the 2020 Developer “for reference only”.

### QUALIFICATIONS OF THE GEOTECHNICAL ENGINEERING PROFESSIONAL

The University is seeking a geotechnical engineering consultant with the following experience and qualifications:

- A minimum of ten (10) years experience in geotechnical engineering services, with experience managing the timely and successful completion of geotechnical engineering services within established and proposed urban environments.
- The capability to provide the services sought by UC Merced and to respond quickly to service requests.
- Agreement to assign capable personnel to this project.
- Have a proven track record of successfully completing this type of work.
- Registration as a Professional Geotechnical Engineer by the State of California
- Experience with percolation testing and providing recommendations for site drainage and groundwater recharge systems.
- Demonstrated excellence in adhering to tight project budgets and schedules from design through post construction.
- Experience working with multiple stakeholders in a single project.
- Experience with University of California projects is desirable.

The consultant should propose the entire team it would use for geotechnical engineering services. The University will approve or reject the sub consultants.

## JOINT VENTURES/ASSOCIATIONS

By Campus policy, proposals for joint or associated ventures will not be considered for this project. If two firms wish to combine in a project team, one firm must be proposed as a sub-consultant to the other.

## SELECTION CRITERIA

The University is seeking a creative and technically experienced geotechnical engineering team. Candidates should be prepared to demonstrate how their work on other projects has resulted in cost-effective, yet reliable geotechnical engineering data and recommendations. The Screening and Selection Committees will be interested in teams that:

- Have demonstrated firm and consultant team experience in geotechnical engineering services, with experience managing the timely and successful completion of geotechnical engineering services within established and proposed urban environments.
- Have proven firm and consultant team capability to provide creative, functional, flexible, and technologically sound geotechnical engineering solutions with an economy of means and within the project budget.
- Have proven firm and consultant team experience with coordinating identification and location of existing underground structures, utilities and other services.
- Have demonstrated firm and consultant team capability to respond creatively and sensitively to an existing facility and an existing campus context.

## SELECTION PROCESS

This Request for Statements of Qualification and attachments will be available at: <http://www.ucmerced.edu/rfp-rfq> beginning on Wednesday, June 19, 2014. Written Statements of Qualifications should be in accordance with the attached Submittal Format.

Submittals must be delivered to the address below no later than 1:00 P. M on Wednesday July 9, 2014. Nine (9) bound copies and one (1) unbound copy of the submittal are required

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The University will convene a Screening Committee to review submissions and recommend a short list of firms to be interviewed by a Selection Committee. The Screening Committee anticipates notifying firms whether or not they qualify for interviews no later than Wednesday July 16, 2014, and scheduling all interviews of short-listed firms, tentatively on Wednesday, July 24, 2014. This is a qualifications based process for our determination of the consultant selection order. The Selection Committee anticipates notifying the selected firm no later than Tuesday, July 29, 2014.

The University reserves the right to request any further documentation that it deems appropriate and necessary for the screening and selection process. Please direct any questions to Senior Project Director Leon Waller via email: [lwaller@ucmerced.edu](mailto:lwaller@ucmerced.edu).

## INSURANCE REQUIREMENTS

The University requires evidence of insurance coverage, to be presented only after the successful firm is selected to provide services. Submittal of insurance information is not required as part of the Statement of Qualifications.

General Liability, Professional Liability Insurance, Business Automobile Liability, and Worker's Compensation will be required in the following amounts:

1. General Liability:  
Comprehensive or Commercial Form:
  - (1) Each Occurrence \$1,000,000
  - (2) Products/Completed Operations  
Aggregate \$2,000,000
  - (3) Personal and Advertising Injury \$1,000,000
  - (4) General Aggregate (Not applicable  
to Comprehensive Form) \$2,000,000

If the above insurance is written on a claims-made form, it shall continue for three years following termination of this Agreement. The insurance shall have a retroactive date of placement prior to or coinciding with the effective date of this Agreement.

2. Business Automobile Liability Insurance for owned, scheduled, non-owned, or hired automobiles with a combined single limit not less than one million dollars (\$1,000,000) per occurrence.
3. Workers' Compensation as required by California State law.
4. Professional Liability Insurance:
  - (1) Each Occurrence \$1,000,000
  - (2) Annual Project Aggregate \$2,000,000

If the above insurance is written on a claims-made form, it shall continue for three years following termination of this Agreement. The insurance shall have a retroactive date of placement prior to or coinciding with the effective date of this Agreement

5. Such other insurance in such amounts which from time to time may

reasonably be required by the mutual agreement of the University and Architect, Engineer, Consultant, or Construction Project Manager against other insurable hazards relating to the work to be done.

UC POLICY ON EQUAL OPPORTUNITY IN UNIVERSITY BUSINESS CONTRACTING

It is the policy of The Regents of the University of California that race, religion, sex, color, ethnicity, and national origin will not be used as criteria in its business contracting practices. Every effort will be made to ensure that all persons regardless of race, religion, sex, color, ethnicity and national origin have equal access to contracts and other business opportunities with the University. The University will establish effective outreach programs to assure equal opportunity in business contracting.

## UNIVERSITY OF CALIFORNIA, MERCED

### SUBMITTAL FORMAT

*Firms submitting their qualifications for the project must follow the format below. Material must all be in 8-1/2 x 11 inch format—no foldouts. Use of the University of California seal, or any University of California logo, is prohibited. Submittals shall include divider tabs labeled with the boldfaced headers below; e.g., the first tab would be entitled “Cover Letter”, the second tab “Qualifications”, etc. Double-sided printing is encouraged. **PROVIDE TWELVE (12) BOUND COPIES AND ONE (1) UNBOUND COPY.***

1. **COVER LETTER** (*maximum of 1 page*)
  - \_ Identify team
  - \_ Provide name of contact person, phone and fax
  - \_ Summarize qualifications most relevant to this project
  
2. **RELEVANT QUALIFICATIONS** (*maximum of 2 single-sided or one double-sided page*)
  - \_ Provide in summary format only
  - \_ Do not include general information
  - \_ Offer short, focused paragraphs by topic (i.e., building type; technical aspects; etc.)
  
3. **RELEVANT PROJECT EXPERIENCE** (*maximum of 4 single-sided or 2 double-sided pages*)
  - \_ Briefly state relevance for each project
  - \_ Specify role of the firm or individual if work was not exclusively by the firm (i.e., joint venture, association); ***if work was done by individuals on the project team while with other firms, this must be clearly stated***
  - \_ Provide a list of the following for each project:
    - project name and location
    - beginning and ending dates of project (including construction)
    - square footage/acreage
    - main project elements
    - owner name with name of contact person

*Note: Projects that are currently in design or under construction are acceptable, but completed projects may carry more weight in the evaluation.*
  
4. **PROJECT TEAM SUMMARY** (*maximum of 2 single-sided or one double-sided page*)
  - \_ Identify key team members, including sub-consultants, and state their qualifications relevant to programming services and the scope of this project
  
5. **APPENDIX**
  - \_ Firm brochure/history/background, reprints, etc. (*optional*)
  - \_ Key team member resumes
  - \_ UC Statement of Qualifications (per attachment)
  - \_ UC Request for Supplemental Information (per attachment)

**UNIVERSITY OF CALIFORNIA, MERCED  
STATEMENT OF QUALIFICATIONS**

1. Firm's Name: \_\_\_\_\_
2. Business Address: \_\_\_\_\_
3. Firm Established (year) \_\_\_\_\_ Telephone No: \_\_\_\_\_
4. Type of Organization (check one):  
 a. Individual \_\_\_\_      b. Partnership \_\_\_\_      c. Corporation \_\_\_\_

5. Principals and Associates (check P or A for each):

	Name	P	A	Degree or Certificate	Institution
a.					
b.					
c.					
d.					

6. Average staff employed in home office: (average of past five years):  
 a. Geotechnical Engineers \_\_\_\_\_      b. Structural Engineers \_\_\_\_\_  
 c. Civil Engineers \_\_\_\_\_      d. Hydrologists \_\_\_\_\_  
 e. Laboratory Technicians \_\_\_\_\_      f. Others \_\_\_\_\_

7. List five major projects constructed within the past five years:

	Project	Owner	Year	Service Cost
a.				
b.				
c.				
d.				
e.				

8. References:  
 a. \_\_\_\_\_  
 b. \_\_\_\_\_  
 c. \_\_\_\_\_

9. (Optional) Where do you normally look for information about proposed University of California projects?  
 \_\_\_\_\_

Signed: \_\_\_\_\_

Date: \_\_\_\_\_

**UNIVERSITY OF CALIFORNIA, MERCED**

## **PRIVACY NOTIFICATION**

The State of California Information Practices Act of 1977 requires the University to provide the following information to individuals who are asked to supply information about themselves:

The principal purpose for requesting the information on this form is for use in the selection process for Design Professionals commissioned by the University. University Policy authorizes maintenance of this information.

Furnishing all information requested on this form is mandatory—failure to provide such information will delay or may even prevent completion of the action for which the form is being filled out. Information furnished on this form will be used by Design and Construction in the screening and selection process for awarding commissions to Design Professionals.

Individuals have the right to access this record as it pertains to themselves.

The official responsible for maintaining the information contained on this form is the Campus Architect for the Merced campus of the University of California.



- b) Any owner, person or entity against your firm or any principal of your firm (indicate project, location and owner). If none, indicate none.
  
- c) The Regents of the University of California against any of your proposed major consultants (i.e. structural engineer, mechanical engineer, and/or any other major consultant on your proposed project team. Indicate campus, medical center, or Department of Energy (DOE) Laboratory and name of project). If none, indicate none.
  
- d) Any owner, person or entity against any of your proposed major consultants (indicate project, location and owner). If none, indicate none.

**DECLARATION**

The undersigned declares under penalty of perjury that all of the information submitted is true and correct and that this declaration was executed in

\_\_\_\_\_ County, California, on \_\_\_\_\_ (*date*)

\_\_\_\_\_  
(Name and Title – Printed or Typed)

\_\_\_\_\_  
Signature

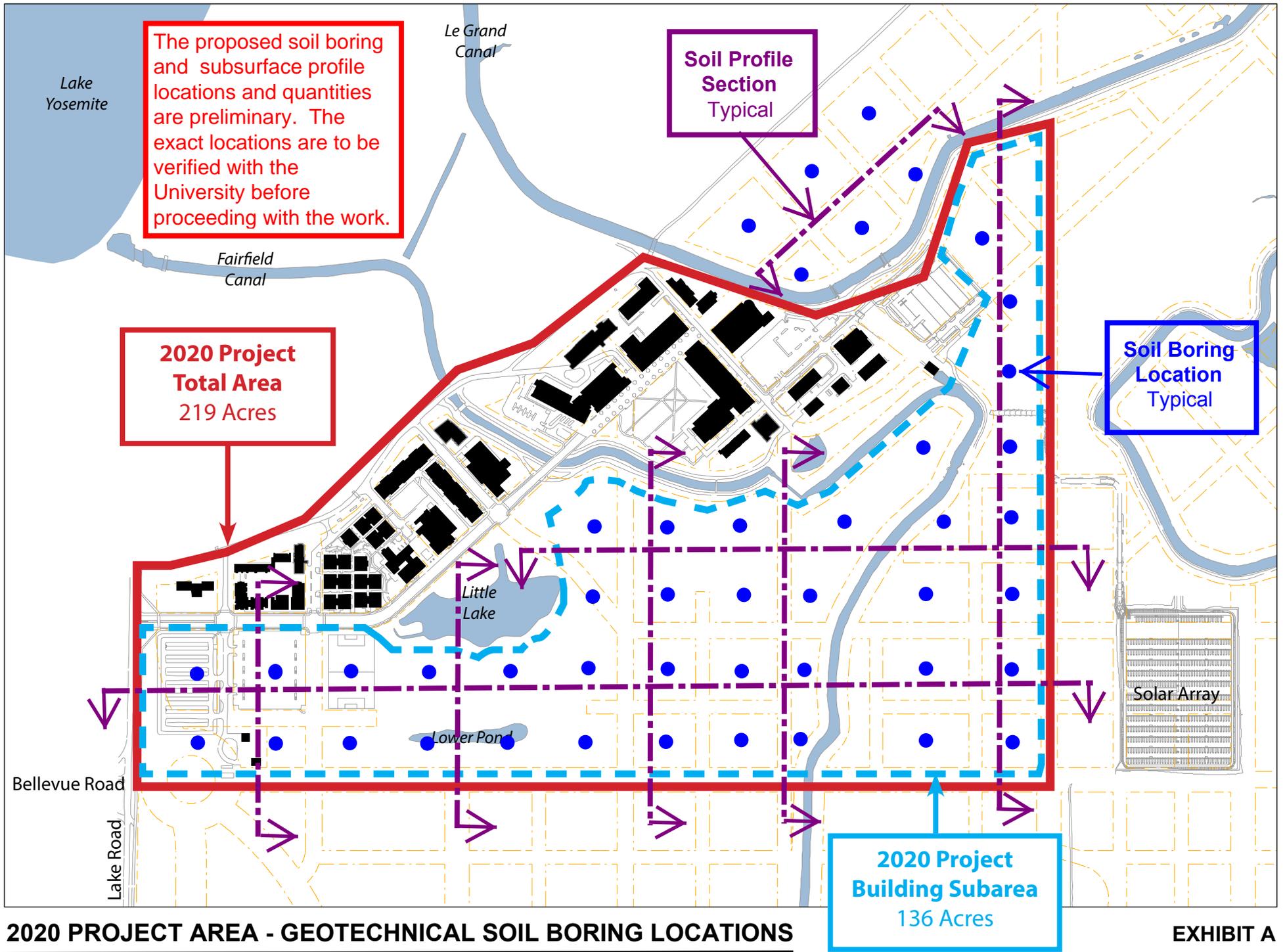
\_\_\_\_\_  
Firm Name

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(City, State, Zip)

\_\_\_\_\_  
(Telephone Number)

\_\_\_\_\_  
(Facsimile Telephone Number)



**2020 PROJECT AREA - GEOTECHNICAL SOIL BORING LOCATIONS**

**EXHIBIT A**