1 Geotechnical Engineer

1.1 The Consultant-provided Geotechnical Engineer is required to be experienced with soil conditions in the region where the project site is located.

1.2 The geotechnical engineer shall evaluate the existing project data, obtain and evaluate all additional data as required to support the design and construction, and prepare a Geotechnical Report.

2 Subsurface Soils Information

2.1 Subsurface soil information, if provided, is included for the consultant’s information only, and is not guaranteed to fully represent all subsurface conditions. The data included in the RFP are intended for proposal preparation and preliminary design only.

2.1.1 If no subsurface soil information is available, the Consultant shall perform, at his expense, such subsurface exploration, investigation, testing, and analysis as his Designer of Record deems necessary for the design and construction of the foundation system.

2.2 All work by the Consultant-provided Geotechnical Engineer at the project location, if required, shall be coordinated with the Project Manager and shall not interfere with normal university operations. Prior to the Foundation Work Design submittal, provide a Consultant Geotechnical Report (an editable Adobe Acrobat PDF version on CD and two printed copies) for review and record keeping purposes. The report shall become the property of the University.

2.3 Geotechnical reports generated during construction shall be provided to the project manager in a timely manner so as to not affect the project schedule. In addition, provide an editable Adobe Acrobat PDF version and two printed copies for record keeping purposes.

3 Consultant-Provided Geotechnical Report

3.1 Submit a written Geotechnical report based upon subsurface investigation data and all additional field and laboratory testing accomplished at the discretion of the Consultant’s Geotechnical Engineer. The Geotechnical Report shall include the following:

3.1.1 The project site description, vicinity map and site map.

3.1.2 Results of all the field and laboratory testing.

3.1.3 Engineering analysis, discussion and recommendations addressing:

3.1.4 Settlement

3.1.5 Bearing Capacity

3.1.6 Determination of the seismic site class, with discussion on whether shear wave testing is/was appropriate for the site

3.1.7 Indiana Building Code will apply on university projects

3.1.8 Foundation selection and construction considerations (shallow, deep, special); dimensions, and installation procedures.

3.1.9 Site preparation (earthwork procedures and equipment), compaction requirements, building slab preparation (as applicable), soil sensitivity to weather and equipment, and groundwater influence on construction

3.1.10 Sheeting and shoring considerations, as applicable

3.1.11 Pavement design parameters, actual or assumed, including recommended thicknesses and materials, be for design or for proposed modifications to the RFP provided pavement design only

3.1.12 Calculations to support conclusions and recommendations

3.1.13 Recommendations shall be presented on a structure-by-structure basis

3.2 The Geotechnical Report shall be signed by a registered Geotechnical Engineer.

3.3 The submitted report shall be accomplished by a cover letter identifying any recommendations of the report proposed that are to be adopted into the design which are interpreted by the Consultant as either conflicting with or modifying the Geotechnical or Pavement-related requirements of the RFP.

4 Geotechnical Site Data required in Design Drawings and Specifications

4.1 The Consultant's final Specifications and design drawings shall include the subsurface data presented in the Geotechnical Report including:

4.1.1 Logs of Borings and related summary of laboratory test results and groundwater observations.

4.1.2 The locations of all borings shall be indicated on a site drawing.

4.1.3 The applicable design drawings shall include reference to the Geotechnical Report including the Company Name, report number, date, allowable soil bearing pressure, and site classification.