

**SECTION 02010
SUBSURFACE EXPLORATION**

PART 1 - GENERAL

1.1 SUMMARY:

A. Section Includes:

1. Reference to Soil and Foundation Investigation.
2. Reference to Contractor-provided Soil and Foundation Investigation.
3. Interpretation and use.
4. Archaeological survey procedure.
5. Examination of site.

DELETE EITHER ITEM 1 OR 2. SOIL REPORTS ARE TYPICALLY PROVIDED BY THE OWNER. IF BY DESIGN TEAM MODIFY SECTION 01400 ALSO.

B. Related Sections:

1. Section 01400 - Quality Control: Soils engineering services requirements.
2. Section 02200 - Earthwork: Soils engineering services requirements.
3. Section 02380 - Caissons: Soils engineering services requirements.

CU PROJECT MANAGER TO HAVE CU ANTHROPOLOGIST CHECK "EXCAVATION WITH OPEN PIT," ADVISE PRIOR TO STARTING EXCAVATION.

1.2 SYSTEM DESCRIPTION:

A. Soils Engineering Procedures:

1. Owner-provided soils investigation.

- a. Soils Engineer will be selected and paid directly by the University.

OWNER-PROVIDED OR A/E-PROVIDED SOILS REPORT IS TYPICAL. DELETE IF PROVIDED BY CONTRACTOR.

- b. Copy of Soils Report may be included in the Project Manual, appropriately placed under "Information Available to Bidders", and not part of the Contract Documents.
- c. A copy will be available for review at the Architect's offices.

2. Contractor-provided soils investigation.

- a. Soils Engineer selected by the Contractor, approved by the University.

CONTRACTOR-PROVIDED SOILS REPORT IS UNUSUAL. DELETE IF PROVIDED BY OWNER.

- b. Payment included as part of the Base Bid.

1. Responsibility and payment for soils engineering services for quality control, caissons and earthwork shall be included in the respective sections.

NOTE: UBC REQUIRES OWNER OR DESIGN TEAM TO RETAIN Q.C. OWNER TO PROVIDE Q.C. UNLESS DIRECTED OTHERWISE.

B. Design Requirements:

1. The Soils Report will be prepared for design purposes in accordance with generally accepted soil and foundation engineering practices.
2. No other warranty expressed or implied will be made as to the professional advice included in the report.

C. Performance Requirements:

1. The exploratory borings will be spaced in order to obtain a comprehensive picture of the subsoil condition.
2. Erratic soil conditions may occur between test holes. If such conditions are found during construction operations, the Architect and University shall be notified.

D. Archaeological Survey:

1. The Owner reserves the right to require an Archaeological Survey under the auspices of the Colorado State Historical Society.
2. Procedure during construction.
 - a. If any relic, artifact, or object is encountered that may be suspected of being historic or pre-historic value: STOP EXCAVATION OPERATIONS IMMEDIATELY AND NOTIFY THE OWNER.
 - b. The Owner will, in turn, notify the State Archaeological and Historical Department, who will conduct a Survey to determine if excavation findings may yield information of historic or pre-historic significance and accordingly become eligible for the National Register.
 - c. In any event, the University may further investigate and research the findings.
 - d. Construction delay or other costs relating to the Archaeological Survey will be processed in conformance with the Contract Documents.
3. The survey may occur prior, during or after the earthwork operations.

1.2 PROJECT CONDITIONS:

- A. The Contractor shall examine the site before submitting Bid to determine for himself the character of materials to be encountered and all conditions which will effect work, time and cost.
- B. Bench marks, monuments, and other reference points, shall be provided and maintained by the Contractor.

PART 2 - PRODUCTS

Not Used

PART 3 - EXECUTION

Not Used

END OF SECTION 02010