



**SECTION 01720**  
**FIELD ENGINEERING**

**PART 1. GENERAL**

The CONTRACTOR shall provide field-engineering services and establish grades, lines, and levels, by use of recognized engineering survey practices. The OWNER or its DESIGN ENGINEER and/or Resident Project Representative shall provide benchmarks for survey reference.

**PART 2. PRODUCTS**

Not Used

**PART 3. EXECUTION**

**3.1 INSPECTION**

The CONTRACTOR shall verify the locations of survey control points prior to starting work. Promptly notify the OWNER of any discrepancies discovered.

**3.2 SURVEY REFERENCE POINTS**

- A. The CONTRACTOR shall protect survey control points prior to starting site work and preserve permanent reference points during construction. Make no changes without prior written notice to the OWNER.
- B. The CONTRACTOR shall promptly report to the OWNER the loss or destruction of any reference point or relocation required because of changes in grades or other reasons. The CONTRACTOR shall replace dislocated survey control points based on original survey control.
- C. The CONTRACTOR shall preserve all USGS, TVA, State of Tennessee, and private markers; do not remove or disturb any such markers without prior approval from the OWNER. Any removal and replacement of such markers shall be at the expense of the CONTRACTOR. A surveyor licensed by the State of Tennessee, with a letter indicating the completion of work shall perform the re-establishment of these markers.

**3.3 STAKING**

The CONTRACTOR shall be responsible for staking the project and preparing cut sheets as needed.

END OF SECTION