

**SECTION 31 69 23**

**DRILLED CONCRETE PIERS AND SHAFTS**

**PART 1 GENERAL**

**1.01 MEASUREMENT AND PAYMENT**

- A. Unit prices: Not allowed in lieu of providing anticipated pier lengths, however unit cost should be included with bid to minimize future disputes.

**1.02 SUBMITTALS**

- A. The Contractor shall provide Record Drawings including each pier location indicating top of pier elevation, depth of pier and top center of pier location relative to the plan location. The pier location shall be given as dimensions off of the building grid or as a bearing and distance from the plan pier center point to the as-built center point, relative to the building grid north. Use licensed surveyor for this work.

**PART 2 PRODUCTS No Requirements**

**PART 3 EXECUTION**

**3.01 EXAMINATION**

- A. Existing utilities: The Contractor shall be responsible for locating existing utilities (including depth) which may conflict with drilling. The Contractor shall protect, at his own expense, existing utilities and be responsible for their repair if they are damaged during construction.

**3.02 CONSTRUCTION**

- A. Tolerances:
  - 1. Specify tolerances.
  - 2. Where specified tolerances are not met, the pier shall be removed and replaced to specified tolerances at no additional cost to the Owner.
- B. Requirements:
  - 1. For short piers, specify the use of Sonotubes (or equivalent) to prevent enlargement of the tops of piers. For long piers, casings will increase in diameter at the top.
  - 2. Specify dewatering.
  - 3. Specify when casings shall be used.

**3.03 FIELD QUALITY CONTROL**

- A. Notifications: Contractor shall notify A/E and DPS minimum three days prior to drilling.
- B. Owner will hire a Testing Agency to be on site continuously during drilling of piers.
- C. Preliminary and final test reports will be delivered to the contractor's project superintendent as soon as possible. Where test results are known at the time of inspection by the Owner's Testing Agency, a copy of the information will be provided to the superintendent at the time of testing/measurement.

**END OF SECTION 31 69 23**