

SECTION 01 71 23 - FIELD ENGINEERING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Verify all dimensions and compare to existing conditions prior to laying out the Work.
- B. Locate, layout and maintain by instrumentation and similar appropriate means, benchmarks, controlling lines and levels necessary for the various trades to properly complete the Work. Maintain a surveyor's log of control and other survey work. Locate existing permanent benchmarks, control points and property corners before beginning Work. Preserve and protect permanent benchmarks and control points during construction operations. Do not change, relocate existing benchmarks, or control points without written approval of Owner's Representative. Replace lost or destroyed permanent benchmarks and control points promptly. Base replacements on the original survey control points.
- C. Investigate and verify the existence and locations of underground utilities and other construction. Contractor is responsible for the accuracy of the layout and of all Work.
- D. Report errors or inconsistencies to Architect.
- E. Confirm placement of construction on the Site after all lines are staked out.

1.3 RELATED WORK

- A. Related Work of Other Sections:
 - 1. Division 01 Section – Project Management and Coordination: Requirements for coordination of submittals and installation of various portions of the Work.
 - 2. Division 01 Section – Project Meetings: Requirements for pre-construction and progress meetings.
 - 3. Division 01 Section – Submittal Procedures: Requirements for Post-Bid, administrative, shop drawings, product data and sample submittals.
 - 4. Division 01 Section – Acceptance of Conditions: Requirements for examination of the Site and existing facilities, concealed utilities and services, and protection of existing facilities and services.
 - 5. Division 01 Section – Execution: General examination, preparation and installation requirements.
 - 6. Division 01 Section – Closeout Procedures: Closeout procedures, record drawings, maintenance manuals, warranties and other closeout submittals.

1.4 QUALITY ASSURANCE

- A. Arrange for building layout to be performed under the direct supervision of an individual complying with State of Texas laws for surveys requiring licensed surveyors.

- B. Verification of Measurements: The Contractor shall be responsible for verification and the correctness of all measurements. Notify Architect of differences found before proceeding with the work. Extra compensation will not be allowed because of differences between actual dimensions and the measurements indicated on the Drawings. Request instructions on how to proceed before commencing work. Refer to Division 01 Section Acceptance of Conditions for additional requirements.
- C. Confirmation of Layout: Prior to commencing excavation work, locate and confirm the location of footings, underground utilities, connection points to utilities, walls, structures and tree locations. Bring discrepancies to Architect's attention. Request instructions on how to proceed before commencing work.
- D. Record Documents: Locate actual horizontal and vertical location of building structure on set of record documents maintained at the Site, referenced to benchmarks and controlling lines and elevations. See Division 01 Section Closeout Procedures for additional requirements.

PART 2 - PRODUCTS

(NOT USED)

PART 3 - EXECUTION

(NOT USED)

END OF SECTION 01 71 23