**SECTION VII - TECHNICAL SPECIFICATIONS**

1. **SCOPE**

This contract provides details for the units, equipment, and labor necessary to perform construction at JEA substations. Units include the necessary materials, labor, and equipment necessary to perform the work unless stated otherwise. The contractor shall be available for emergency type repair work within three business day of notification of such need. The contractor will be notified of required work as determined by the JEA project manager.

1. **GENERAL INTENT**

All Work shall be done in a safe and professional manner, to render a neat and uniform appearance. All material shall be handled in such a way as to preserve its operational capabilities.

General arrangement shall be in accordance with JEA Substation Construction Standards and satisfactory to the Project Administrator. JEA does not guarantee any minimum quantities of work.

1. **CONSTRUCTION DRAWINGS**

The Construction Drawings, where provided, will consist of plan views of the entire project showing the expected placement of such facilities as circuit breakers, air gap switches, potential transformers, surge arresters, insulators, structures, and other substation equipment in relation to existing structures and equipment. Construction drawings may not always be provided.

1. **JEA SUBSTATION CONSTRUCTION STANDARDS**
   1. This publication provides standard engineering, design, and construction practices for the JEA. It contains Standard Construction details that illustrate the various Standards as well as providing written specifications, construction notes and a list of required materials.
   2. Work will be performed as specified by the JEA Substation Construction Standards, which shall be considered as part of the specifications.
2. **EQUIPMENT CLEARANCE AND TAGGING REQUIREMENTS**
   1. Personnel who perform work on substation equipment and circuits must have completed a JEA "Tagging" class and/or be proficient at obtaining and releasing "tags" on substation equipment and JEA circuits. Personnel with approved clearance and "tags" on substation equipment and/or circuits must be always available to the Power System Operator while the tags are in place.
   2. Personnel working inside the substation must have passed JEA’s substation safety training class. All personnel working within the substation must be proficient at working in high voltage substations and be must knowledgeable of the potential dangers that exist.
3. **BELOW GRADE WORK REQUIRMENTS**
   1. All excavations shall be made in compliance with OSHA Regulations.
   2. All excavations are to be backfilled and compacted to the original degree of compaction, unless otherwise indicated.
   3. Storage of excavated material shall be the responsibility of the Contractor. Storage on site of both excavated materials and grade covering rock will be permitted within the substation site where it does not interfere with access for routine operations by JEA crews.
4. **Site Restoration** 
   1. It is the policy of the JEA to restore all property, both public and private, to as good or better condition than when the construction began. Area shall be restored to the satisfaction of the JEA Representative.
5. **TYPES OF UNIT PRICES**
   1. These units are for specific work descriptions as described and should be performed and billed per unit. All labor, supervision, equipment, and materials for these type units shall be provided by the contractor and included in the unit price unless stated otherwise below.
   2. Materials furnished by the contractor that are not covered by the Unit Prices shall be billed to the JEA in accordance with the actual cost to the contractor plus the mark-up submitted in this Category.
   3. Backfill and compaction shall be included for the appropriate Bid Items.
   4. Any surface restoration, which is required, shall be included in that unit price.
   5. These units are for labor and equipment to perform the assigned work that is not covered by unit Prices for Specific Work. These prices are intended to cover all possible charges that may arise. Subcontractor charges, under the direct supervision of the contractor shall be billed to the JEA in accordance with the actual cost to the contractor plus the mark-up submitted Category.