

## **SECTION 107 - CONSTRUCTION STAKEOUT**

### **107.01      DESCRIPTION**

This work shall consist of furnishing, placing and maintaining construction layout stakes as specified in the Contract Documents or as directed by the M-NCPPC Construction Manager. Horizontal and vertical control on site will be established by the Commission prior to the commencement of construction. All construction stakeout as and when necessary for the satisfactory completion of this project shall be provided by the Contractor.

### **107.02      MATERIALS**

The material for flagging the clearing limits shall be a 3” international orange vinyl material with LOD printed on it with 2” letters. The Contractor shall, as part of the construction stakeout operation, before any clearing operation commences and prior to pre-construction meeting with MCDPS, demarcate limit of disturbance throughout the entire project as shown in the Contract Documents and labeled as Limit of disturbance to the satisfaction of the Construction Manager.

### **107.03      CONSTRUCTION**

- A.            The Contractor shall use the horizontal and vertical controls as provided by the Commission and shown on the plans; to accurately stakeout all proposed facilities, LOD, and grading. The Contractor is responsible for all layout work and stakeout work as necessary (including re-staking as needed) to insure proper locations and grading as shown on the plans.
- B.            Prior to construction, all stakeouts must be reviewed by the Construction Manager or Inspector. Construction manager review shall not be construed as approval.
- C.            Commission crews shall in no way be responsible for providing further assistance to the Contractor above and beyond providing the initial horizontal and vertical controls. It is the responsibility of the Contractor to protect and maintain all control lines and benchmarks. Reestablishing damaged controls or benchmarks will be done by the Contractor at the Contractor's expense.
- D.            The Contractor shall use competent personnel and state of the art equipment for all engineering work required to set and maintain the elevations and dimensions as specified in the Contract Documents.

#### **107.03.02      GRADE CONTROLS**

The Contractor shall provide approved equipment to check the grades as directed by the Construction Manager.

### **107.03.03     FLAGGING**

The flagging shall be placed continuously around work areas. In areas where trees are not to be disturbed, the Contractor shall individually flag those trees in a line along the clearing limits that are not to be moved or destroyed and provide tree protection measures as required in the contract documents. If the clearing or LOD flagging has been disturbed or damaged, the Contractor shall reflag the areas within 48 hours after notification by the Engineer that replacement flagging is needed.

### **107.03.04     UTILITIES**

The contractor must contact Miss Utility to locate all existing off site utilities. The contractor is responsible for the location of the on-site underground utilities that are not located by Miss Utility. It is the contractor's responsibility to furnish written proof to the Construction Manager that all utilities have been cleared for both off site and on site utilities. This proof may be a copy of the Miss Utility fax-back or a copy of the Miss utility on line record for off site and written confirmation from the contractor for the location of on site utilities. Excavation may proceed only when both Miss Utility and the Construction Manager agree that all utilities have been located. Test pitting of utilities will be the responsibility of contractor and will be incidental to the work.

### **107.04         MEASUREMENT AND PAYMENT**

Construction stakeout will not be measured but will be paid for at the Contract - lump sum price. The payment will be full compensation for furnishing, placing and maintaining construction layout stakes, flagging of clearing limits and wetlands, and for all material, labor, equipment, tools, and incidentals necessary to complete the work. Payment of the Contract lump sum price will be prorated and paid in equal amounts on each monthly estimate. The number of months used for prorating will be the number estimated to complete the work. If construction stakeout is not listed in the bid items, it shall be considered incidental to the overall contract.