

## **ITEM 551.4020 17: FURNISHING EQUIPMENT FOR INSTALLING MICROPILES**

### **DESCRIPTION**

This work shall consist of furnishing the necessary equipment at the work site for installing micropiles or micropiles with permanent casings as indicated in the contract documents.

The equipment shall be capable of advancing drill casing and permanent casing, and drilling holes for micropiles by rotating the casing(s) and applying a static vertical load. The equipment shall be capable of cleaning out the inside of the casing(s) without disturbing the surrounding soil or excavating more than 0.3 m ahead of the casing. The equipment shall be equipped with gauges conveniently located at the pile installation site to measure the volume of grout being pumped into the pile and the grouting pressure. The equipment shall be able to perform the work without removing or relocating existing utilities, structures or structural members.

### **MATERIALS**

Not Specified.

### **CONSTRUCTION DETAILS**

Submit literature fully describing the type of equipment proposed for use to the Engineer for approval by the Deputy Chief Engineer Structures, at least 30 days prior to commencing installation. At any time, remove all equipment deemed unsatisfactory by the Engineer from the site and replace it with satisfactory equipment at no additional cost to the State.

### **METHOD OF MEASUREMENT**

The furnishing equipment item will be measured on a lump sum basis.

### **BASIS OF PAYMENT**

The unit price bid for furnishing equipment for installing micropiles shall include the cost of all labor, material and equipment necessary for transporting, erecting, maintaining, making any ordered equipment replacement, dismantling and removing all installation equipment.

Payment shall be as follows: Seventy-five percent (75%) of the lump sum amount bid will be paid when the required equipment for installing the micropiles is furnished and at least one pile for each piece of equipment specified has been installed to the Engineer's satisfaction. The remaining twenty-five percent (25%) will be paid when the work of installing all micropiles is complete.