

ITEM 17551.0395 M - PREDRILLING HOLES FOR PILES

DESCRIPTION

The work shall consist of drilling, boring, or augering holes and backfilling for piles at the locations and to the depths indicated on the contract plans, or as ordered, in writing, by the Engineer.

All pile holes shall be kept open for pile installation and backfilling.

MATERIALS

Backfill shall be as indicated on the Contract Plans.

CONSTRUCTION DETAILS

Holes shall be drilled, bored, or augered through in situ soils, boulders, buried obstacles, debris, footings, concrete slabs and rock whether indicated on the plans or not. If it is specified to predrill into rock and the rock elevation varies in the field by more than 0.6 m from that shown on the plans, the Deputy Chief Engineer Structures shall be contacted to determine if the pile tip elevation should be revised. The Geotechnical Engineering Bureau shall be contacted for highway concrete retaining walls. It is the Contractor's responsibility to provide equipment capable of penetrating to the required elevation. No jetting will be permitted without the written permission of the Engineer.

Holes shall be of the diameter shown on the plans. If no diameter is shown, then the following diameters shall be provided by the Contractor:

Displacement piles. 150 mm greater than the nominal diameter of the pile.

Steel H-piles. 150 mm greater than the maximum diagonal axis measurement of the pile in question.

Holes shall be progressed without noticeable subsidence of the surrounding ground surface. Should noticeable subsidence occur, in the Engineer's opinion, work shall be stopped and the Regional Geotechnical Engineer shall be consulted. Upon consultation with the Regional Geotechnical Engineer, the Contractor shall propose a scheme to be approved by the Engineer for progressing the work without subsidence.

Holes shall be cleaned out to the elevation required by the contract documents, or to the elevation established by the Engineer.

Immediately after each pile has been installed to the required tip elevation, the hole shall be backfilled as indicated on the Contract Plans. Unless otherwise specified in the contract documents, the Engineer may require backfill placement after pile placement, but prior to pile driving, where driving is required to reach final tip elevation if, in his opinion, the procedure is required to reduce vibration.

If the Contractor chooses to utilize casing and leave the casing in place, the cut-off elevation shall be subject to the approval of the Engineer.

METHOD OF MEASUREMENT

The work will be measured as the number of linear meters of hole progressed. Measurement will be taken along the centerline of the hole. No payment will be made for any length of hole progressed below the elevation shown on the plans unless ordered, in writing, by the Engineer.

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BASIS OF PAYMENT

The unit price bid per linear meter shall include the cost of all labor, materials and equipment necessary to satisfactorily complete the work including backfill.