



## **5015 - SPECIFICATION FOR INSTALLING SUBSURFACE DRAIN PIPES**

### **5015 - 1 DESCRIPTION**

- 1.01 The work shall consist of drain pipes for subsurface drainage installed at locations and in conformity with the lines and grades shown on the plans or designated by the Engineer.
- 1.02 The work shall include all types and sizes of metal, tile, and plastic drain pipes.

### **5015 - 2 MATERIALS**

- 2.01 The Department will supply and pay for drain pipe material.

### **5015 - 3 CONSTRUCTION**

- 3.01 The location and elevation of the drain pipe installation will be staked by the Engineer.
- 3.02 The excavation for the drain pipes shall be in accordance with the requirements for Earth Excavation (Specification 2200), except in cases where the Engineer judges that it is impractical to remove the excavation with normal earthmoving equipment, then the work shall be performed on an extra work basis.
- 3.03 The subcut shall be backfilled with granular material in accordance with the requirements for Granular Backfill (Specification 6600).
- 3.04 The Engineer will designate the point at which the laying of the pipe shall commence.
- 3.05 The upstream end of the drain pipe shall be plugged as directed by the Engineer.
- 3.06 The sections of the drain pipe shall be firmly joined. Metal and plastic drain pipe shall be joined with coupling bands. Joints shall be as tight as possible.
- 3.07 If perforated drain pipe is used, the pipe shall be placed so that the perforations are in the position indicated on the plans or designated by the Engineer.
- 3.08 Granular backfill shall be placed around the pipe in accordance with the requirements for Granular Backfill (Specification 6600). The depth of cover will be designated by the Engineer.
- 3.09 The remainder of the backfill shall be in accordance with the requirements for Embankments (Specification 2300).
- 3.10 The Contractor shall repair or replace, at no direct expense to the Department, any drain pipe damaged by his operation.

### **5015 - 4 MEASUREMENT**

- 4.01 Subsurface drain pipes will be measured in metres.
- 4.02 Measurement will be taken along the invert and parallel to the barrel of the drain pipe.

## **5015 - 5 PAYMENT**

- 5.01 Payment for INSTALLING SUBSURFACE DRAIN PIPES will be at the contract unit price per metre for the type specified. The unit price will be full compensation for unloading, storing, handling, and hauling pipe material and assembling the pipe.
- 5.02 Payment for granular backfill will be in accordance with the requirements for Granular Backfill (Specification 6600).
- 5.03 Payment for excavated material will be in accordance with the requirements for Earth Excavation (Specification 2200).