1. subsurface DRAINs (revised 2-1-2022)

Description. This work consists of installing subsurface drains, with geotextile, drainage pipe, and backfill material as shown in the plans or as directed by the Project Manager.

Materials.

All materials provided must meet the requirements of the Build America Buy America (BABA) special provision as applicable.

Provide Drain Aggregate meeting the requirements of Subsection 701.10.

Provide Subsurface Drainage Geotextile Filter, High Survivability, Class A, meeting the requirements of Section 716.

Provide 8 inch Corrugated Polyethylene Drainage Pipe meeting the requirements of Subsection 708.07, Type SP with Class 2 perforations.

Provide 8 inch Corrugated Polyethylene Drainage Pipe meeting the requirements of Subsection 708.07, Type S for drain outlets/connections.

Provide splices, fittings, and connectors that will not impede flow or damage the drainage pipe, and have sufficient strength to withstand construction handling and permanent loading.

Provide rodent guards for each drain outlet consisting of steel screen with ½ inch by ½ inch openings and a stainless steel clamp or pre-manufactured guards meeting the opening requirements.

Construction Requirements:

Unless otherwise specified by the Project Manager, excavate the trench area as shown in the Details in the Plans.

Place Drainage Geotextile over the bottom and sides of the excavated trench in conformance with Subsection 622.03.3.

Place Drainage Pipe on top of the geotextile at the bottom of the excavated trench.

Place Drain Aggregate immediately following Drainage Pipe placement and otherwise in accordance with Section 622.

Do not operate construction equipment directly on the geotextile until there is a minimum cover of 14 inches.

Do not use vibratory, studded or sheepsfoot compaction equipment on the first lift. Compact the first lift in accordance with Subsection 622.03.3.

Place all remaining lifts in accordance with Section 203.

Repair any Geotextile damaged during construction at Contractor’s expense.

Construct drain outlets, including slope and daylighting requirements, as shown in the plans.

Method of Measurement:

Accepted quantities of Drain Aggregate are measured by the cubic yard as calculated from the plan dimensions.

Subsurface Drainage Geotextile Filter is measured in accordance with Subsection 622.04.

Accepted quantities of perforated and non-perforated Corrugated

Polyethylene Drainage Pipe are measured by the linear feet. Connectors, splices, fittings,

rodent guards, trench excavation, and all labor necessary for placement of drainage pipe are

not measured for separate payment.

Basis of Payment. Payment is full compensation for all labor, tools, equipment,

and other incidentals necessary to complete the work in accordance with the specifications and

as directed by the Project Manager.

Accepted quantities of Drain Aggregate are paid at the contract unit bid price per cubic yard.

Subsurface Drainage Geotextile Filter is paid in accordance with Subsection 622.05.

Accepted quantities of perforated and non-perforated Corrugated Polyethylene Drainage Pipe are paid for at the contract unit price per linear foot.