1. retaining wall backfill drains (revised 2-2-2022)

Description. Construct and install Retaining Wall Backfill Drains at the locations shown on the plans or as directed by the Project Manager.

Materials.

Provide geotextile-wrapped 4 inch Corrugated Polyethylene Drainage Pipe conforming to AASHTO M 252 type SP requirements with Class 2 perforations. The geotextile wrapping the pipe must meet requirements of Section 716 for Subsurface Drainage Geotextile, High Survivability, Class A.

Provide 4 inch Corrugated Polyethylene Drainage Pipe conforming to AASHTO M 252 Type S requirements for drain outlets.

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 standard inlet cleanout threaded plugs.

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.

Provide a flexible, driveable delineator for each inlet cleanout, outlet drain, or combination location.

Construction Requirements. Transport, store, and install Retaining Wall Backfill Drain materials according to the manufacturer's recommendations.

Prior to installation, inspect Retaining Wall Backfill Drain materials for damage. Replace any damaged or unusable materials at no cost to the Department.

Place Retaining Wall Backfill Drain as shown in the plans. Provide positive gravity drainage.

Place inlet cleanouts at locations indicated on the plans or as directed by the Project Manager. Extend outlet drain(s) downgrade from end of the Retaining Wall Backfill Drain to daylight into proposed ditch section. Attach rodent guard(s).

Do not compact directly over the Retaining Wall Backfill Drain until a minimum of 12-inches of cover is placed over the drains.

Drive one flexible, driveable delineator at each inlet cleanout, outlet drain, or combination location.

Method of Measurement and Basis of Payment. Retaining Wall Backfill Drains are not measured for payment. All materials, labor, and other incidentals required to complete installation of Retaining Wall Backfill Drains is incidental to and included in the cost of the Retaining Wall.