

Silt fence must be installed below any areas of excavation or where excavated or construction materials are placed. All areas disturbed during construction to be seeded with a lawn grass mix (unless otherwise specified by owners).

Limit runoff from above by reforming berms that provide cross drainage on the driveway. This is considered maintenance, so is not grant eligible. There is potential to create additional infiltration if the shed below the cut-across drive is removed.

Plans described below are aimed at infiltrating runoff from the house, driveway, patio, and garage.

The rock infiltration areas locations are indicated on the site diagram top view.

- Confirm utility locations with owner and Diggers Hotline prior to beginning construction.
- Be sure to avoid the use of heavy equipment within the proposed infiltration areas; it will compact the soil and decrease infiltration.
- Rock infiltration area sizes, cross sections, and project quantities are found in the plan set.

Rock Infiltration Pit A (DNR Technical Standard 1007)

1. Install 12" collection boxes below where downspouts will be installed on the North sides of house as indicated on the site plan. Extend 4" PVC pipe from collection box to the rock infiltration pit.
2. Excavate a flat pit (3 feet deep on uphill side and 1.6 feet deep on downhill side) and 10 ft X 12 ft at the surface.
3. Line the sides of the pit with 8 ounce, non-woven filter fabric.
4. Install a 4" HDPE drain tile to exit the pit just below where the filter fabric will be installed. Outlet the drain tile on the slope on a well-vegetated area, cap with a screen.
5. Install a 4" vertical PVC pipe observation well as shown in the site diagram. The pipe must extend at least 4" above ground and be capped. The observation well will have ¼" X 8" slots at the bottom.
6. Fill the pit with clean, ¾ to 2 inch washed rock, stopping approximately 4 inches from the top.
7. Add a horizontal layer of filter fabric on top of the rock.

8. Cover the filter fabric with soil to the surface. Seed with lawn grass and install a straw blanket.



Installed collection box



Rock Infiltration Pit C and Trench B (DNR Technical Standard 1007)

1. Excavate beginning at the far west end of the infiltration pit C establishing a depth of 2 feet. The bottom of the pit must be flat. The depth at the start of the trench B (far-east side) will be about 3.75 feet based on general slope. Dig a pit 7 ft. by 10 ft. by from 2.0 ft. deep at bottom of slope to 2.5 ft. deep at end of pit C. The trench bottom (B) will be from about 2.5 deep to 3.75 feet deep. The trench will be 3 feet wide by 19.5 feet long. Both will begin 1.5 feet from the edge of the garage. Scrape the edge along the garage to slope to the infiltration pit and allow for installation of surface rock 4" deep.
2. Install channel drain diversion along the front of the garage (about 6 inches from edge of garage) and along the sidewalk as shown on the site diagram. Cut asphalt/concrete to install the channel and replace with concrete to grade.
3. Line the sides of the pit and trench with 8 ounce, non-woven filter fabric. Extend the filter fabric under where the surface rock will be located to the edge of the garage.
4. Install a 4" vertical PVC pipe observation well. The pipe must extend at least 4" above ground and be capped. The observation well will have ¼" X 8" slots at the bottom.
5. Fill the pit with clean, ¾ to 2 inch washed rock, stopping approximately 6 inches from the top.
6. Add a horizontal layer of filter fabric on top of the rock.
7. Cover the filter fabric with rock to the surface adding a gradual 4" berm below the lower end of the infiltration areas. Seed and cover with straw blanket.