



# Drainage Design & Erosion Control Worksheet

Use this worksheet to help you determine if you need an Engineered Drainage Plan, an Abbreviated Drainage Plan, or no plan. Submit completed sheet with your application packet.

Parcel number \_\_\_\_\_  
Property address \_\_\_\_\_  
Date worksheet completed \_\_\_\_\_

1. **Lot Area:** \_\_\_\_\_ acres. (Total parcel area.)
2. **Is lot in a development with an approved & functioning Storm System** where all downspouts are designed to tie into a plat drainage facility? Contact Public Works Development Review at [DevRev\\_Tech@co.thurston.wa.us](mailto:DevRev_Tech@co.thurston.wa.us) if unknown. (Y/N) \_\_\_\_\_
3. **Is the property in the county NPDES area, have A/B soils, regulated critical or hazard areas? Answer below.**  
(Go to the [county's Permitting Map](#) & enter the property parcel number or address. In the map menu at top left, click on **Map & Layers**. Then click **Show Layers List**. Next click the plus symbol to **open Permitting Data**.)
  - **NPDES Area? (Y/N)** \_\_\_\_\_  
(In Permitting Data section, click the plus symbol in front of **Drainage & Basins** to turn on the layer and open the map legend. **If the yellow/golden Thurston County boundary is mapped on any part of the property, mark Y for Yes.** If not, mark N.)
  - **SOILS A/B?\* (Y/N)** \_\_\_\_\_  
(Scroll down to **Natural Resources** and click the plus symbol to open the list. Then scroll down to **Soils (USDA)** and click the box to turn on the soils layer. Next, click the list symbol and down arrow (next to the checked box) to see the color legend for the listed soils. **If any of the soil names below are mapped on your property, mark Y for Yes.** If not, mark N.)  
\*A/B Soils includes any types with these names: Alderwood, Baldhill, Baumgard, Boistfort, Bunker, Cagey, Cathcart, Centralia, Chehalis, Delphi, Eld, Everett, Giles, Grove, Indianola, Jonas, Newberg, Nisqually, Philchuck, Pullallup, Raught, Salkum, Schneider, Spana, Spanaway, Vailton, Wilkeson, Yelm as listed on the map.

- **Project within 200 feet of Wetlands (Y/N) \_\_\_\_\_**  
(Stay in the **Natural Resources** section, scroll down and click to turn on **Wetland Delineations** layer, the **Wetlands** layer under it, and the **Wetlands Review Areas** under that. **If any of these layers are within 200 feet (see map scale at bottom of map) of where your project will disturb the ground, mark Y for Yes.** If not mark N.)
- **Project within 200 feet of slopes of more than 10%? (Y/N) \_\_\_\_\_**  
(In the Permitting Data section, scroll UP to **Reference Layers** and click the plus symbol to open the list. Click **Contours 2ft** to turn on the layer. Next zoom in closer on the property until you see the contours layer marked in feet. **Is any one of the contours on your property spaced closer than 20 feet apart and also within 200 feet of where your project will disturb the ground? Mark Y for Yes.** If not mark N.)
- **Marine Bluff Hazard Area (Y/N) \_\_\_\_\_**  
(In other words, is the property located on a bluff adjacent to Puget Sound?)
- **Steep Slopes (Y/N) \_\_\_\_\_**  
(In the Permitting Data section, scroll down to *Environmental & Public Health Hazards/Steep Slopes*)

#### 4. Hard Surface Areas (Impervious)

Impervious areas are hard surfaces of roofs, driveways (gravel, concrete, asphalt), sidewalks, patios, etc. Use the [Impervious Surface worksheet](#) (PDF) to fill in the blanks below. Please note square feet AND acres. (43,560 square feet = 1 acre).

Existing Impervious \_\_\_\_\_sf \_\_\_\_\_acres

New Impervious \_\_\_\_\_sf \_\_\_\_\_acres

**TOTAL IMPERVIOUS \_\_\_\_\_sf \_\_\_\_\_acres**

Percent Impervious: \_\_\_\_\_%

(To calculate, divide **TOTAL IMPERVIOUS ACRES** by **Lot Area** from number 1.)

TOTAL DISTURBED AREA: \_\_\_\_\_sf \_\_\_\_\_acres

Percent Disturbed: \_\_\_\_\_%

(To calculate, divide TOTAL DISTURBED AREA ACRES by **Lot Area** from number 1.)

Area Converted to Landscape: \_\_\_\_\_sf \_\_\_\_\_acres

Area Converted to Pasture: \_\_\_\_\_sf \_\_\_\_\_acres