

Shamrock Dirt Work
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Water Drainage & Erosion Control

Water management and drainage can be accomplished with the following considerations:

- ❖ Understanding the source of the water.
 - Can the land be sloped to allow water to flow away from the property
 - Things that can limit this
 - Utilities (public and private)
 - Septic
 - Fences
 - Neighbors
 - Structures and physical barriers
- ❖ Types of drains
 - If drains are needed, there are 2 types to consider
 - French drains
 - Used to remove subsurface water (soggy/mushy ground)
 - Premade french drains
 - ◆ Good for low traffic areas and light duty applications
 - ◆ Do not drive over with lawnmower or vehicles
 - ◆ Good for close to the house or structure
 - Custom french drains
 - ◆ We use perforated PBC with coarse septic rock wrapped in heavy landscaping fabric
 - ◆ More durable
 - ◆ Can handle more water due to the larger surface volume
 - Surface drains
 - Used to remove water in low spots where water accumulates
 - Can be connected to gutters
 - Requires a change in elevation from surrounding area to work
 - We only use 4 inch PBC or larger to ensure the pipes do not collapse during backfill
- ❖ Erosion Control
 - Several methods can be used to prevent or minimize erosion
 - Dry riverbeds

- Stone/rock
- Decorative rock
- Gabion rock
- Riprap
- Natural vegetation
 - sod
 - Prairie grass
 - Creeping vine
 - trees/bushes with good root system
- Erosion fabric
- Mulch
- Terrace
- Berms
- Redirecting water such as gutters and drains