

### What is a Rain Garden?

 Bio-Retention-" Bio-retention is an upland water quality and water quantity control practice the uses the chemical, biological and physical properties of plants, microbes and soils for removal of pollutants from storm water runoff." (from www.bioretention.com)

# In English, please?

- It's a garden that:
  - works hard to control pollution from storm water run-off
  - creates wildlife habitat
  - Saves on water, fertilizer, etc.
  - Looks pretty!

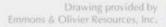




- Scope your site
  - Look for existing drainage patterns
  - Find collected water
  - Best after rain (or use hose)

#### What's next?

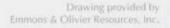
- Evaluate your Soils
  - Sandy soils=OK
  - Clay soils=bad!
  - Best mix:
    - 50-60% sand, 20-30% topsoil, and 20-30% compost
- Test Drainage
- Add drain system if necessary
- Loosen compacted soils





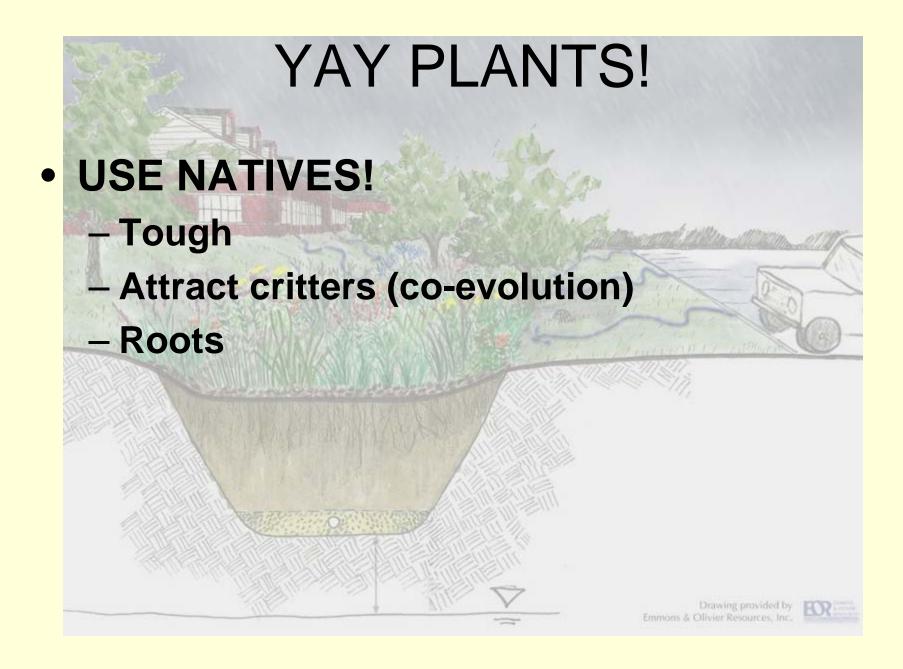
#### Soil...CHECK! Now What?

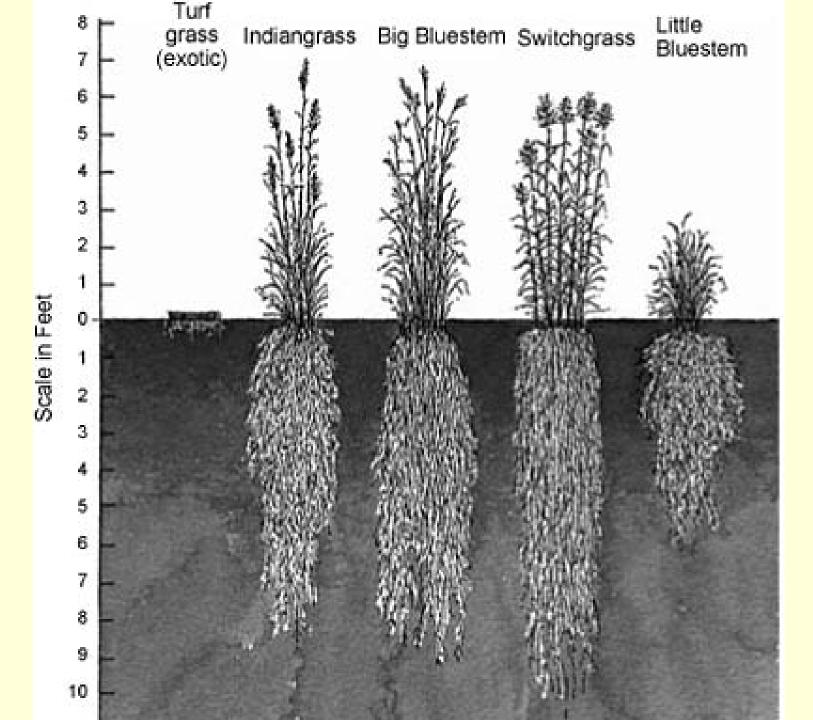
- Design the garden
  - Calculate size
    - Find sq. footage that will drain into the garden (roof and paved surfaces)
    - With good soil mix, garden= 20-30% of sq. footage
    - ANY SIZE IS STILL GOOD FOR WATER QUALITY! NO GARDEN IS TOO SMALL!



# Getting closer!

- Prepare the site
  - Could be simple-directing the water
  - Define borders
  - Remove turf
  - Dig and prepare/improve soil
  - Depth of 6 inches





## Blue False Indigo

- Grows 3-5 ft. above soil
- Roots can be 25
  FEET below soil!

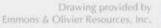




- Zones
- Move unhappy plants
- Prepare for growth
- MULCH!
- Rocks to slow erosion at entrance

## Care and Feeding of your Garden

- Water until established
- Slow flow
- Weed
- Remove sediment
- Don't park or walk on it!





## Free Rain Garden Designs!

 Rain Gardens of West Michigan <a href="http://www.raingardens.org/Garden\_Designs.php">http://www.raingardens.org/Garden\_Designs.php</a>



Michigan Boulevard Rain Garden



# Dorothy Buell Memorial Visitor Center

