

Storm Water Infiltration Workshop

Native Species BMPs

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Things to Consider

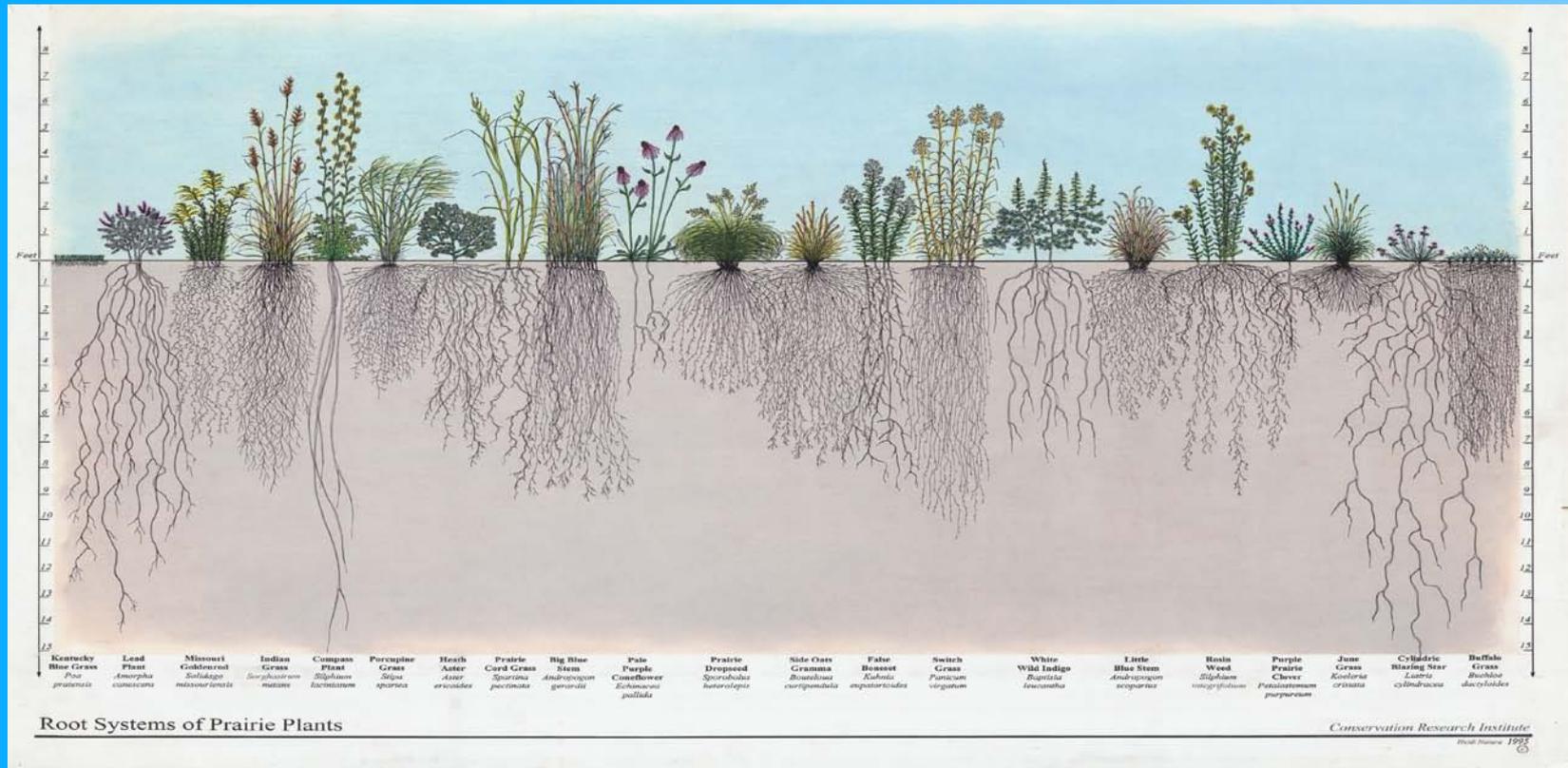
- 1. Establish goals in the planning phase
- 2. Prepare your site appropriately
- 3. Specify quality product and installation
- 4. Coordinate your project for success
- 5. Plan for maintenance
- 6. Trouble shooting



Plan For Success



Plan for the Value of Natives



Plan to avoid or alleviate compaction



Reducing the value of your investment



Hard pan created from Earth-moving activities



Sub-soil Preparation



Parabolic Ripper increases soil porosity

Seed Bed Preparation



Good seed to soil contact

Weeds & Weed Seeds



Canada Thistle, Burrdock

Problem: Erosion



Caused by lack of rapid soil cover and root system stabilization

Short Term Erosion Control

- Prepare site!
- Goal: good soil structure: water infiltration & percolation
- Plant cover crops
- Mulch with weed-free straw
- Use woven/straw matting in high flow areas
- Consider polymer



Cover Crops



Round-up® Ready Soybean



Where does your seed come from?



Local Ecotype Native Prairie Remnant



You hope your seed comes from here!



Pale Purple Coneflower



Pure Live Seed PLS



Purity

Pure Live Seed (PLS)
= Purity X Total Viable **SPEC PLS**



Know your Grower



Germinating wild seed (G0)

High-quality install of seed



No-till Drill



High-quality installation at ground level



Shallow seed placement and
Good seed to soil contact

Maintenance



Mowing to reduce annual weed competition

Maintenance



Herbicide application to control perennial weeds.

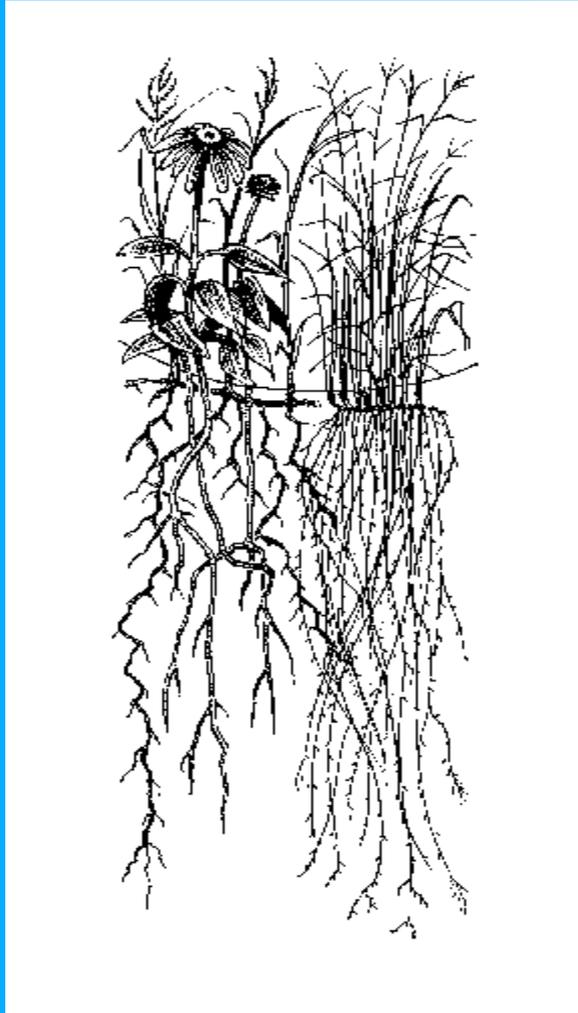


Maintenance



Prairie Burn 3rd or 4th year

Establishment!



**Deep-rooted,
native prairie
establishment**

Native Prairie

Infiltration Swale



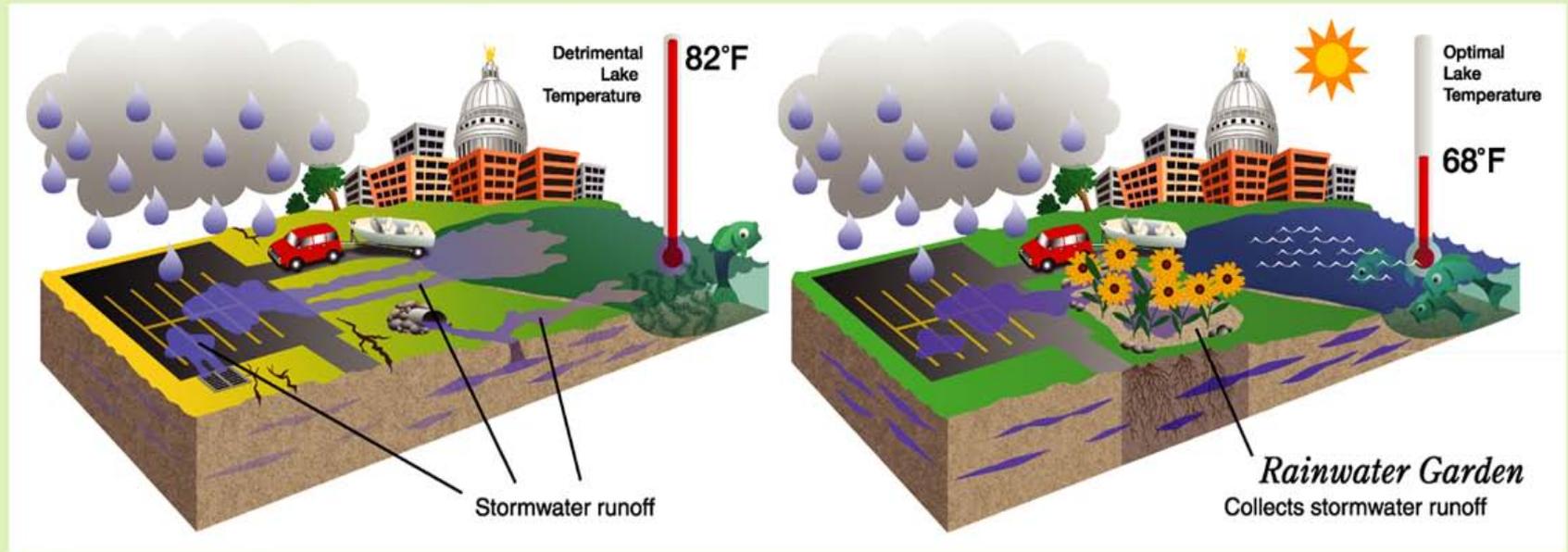
Tall-Grass Restoration



Rain Garden

The Urban Hydrology Cycle

Illustrations: Roger Daleiden / Atomic Studios



Large amounts of water run off of parking lots, streets and sidewalks, carrying harmful pollutants to area lakes and streams.

Rain Gardens are natural water quality systems – collecting runoff, filtering out pollutants and helping protect our lakes and streams. They allow about 30% more water to soak into the ground.

Thank You



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