grow

earth-wise guide to

# Landscape Design

The purpose of this fact sheet is to provide back-ground information on creating a green garden for either the do-it-yourselfer of for those working with a landscape professional

# benefits of a green garden:

- Reduce water usage
- Reduce the need for pesticides and fertilizers
- Lower the overall impact on the surrounding environment
- Provide wildlife habitat
- Preserve the look and feel of Central Texas

## steps to a green garden:

- Analyze conditions in your yard
- Start with a plan
- Plant trees to create shade
- Incorporate techniques to keep water on the land
- Select tough plants

Choose a style or design that appeals to you (clockwise from top left): The structural elegance of sun-loving xeric plants or the bright colors of a cottage garden, a tailored formal yard or an innovative rain garden.

#### Green Garden, Central Texas Style

Green Gardens come in many styles. They range from cottage gardens full of color, to soothing Zen gardens, to hot cactus rock gardens. Each of these styles can be created using a plant palette tailored to the unique conditions of the Central Texas area, and more specifically, to the conditions in your own yard. An array of native and adapted plants makes a Green Garden a beautiful, earth-friendly landscape that reflects the character of our local environment, and gives your yard and your community a distinct sense of place.

In addition, Green Gardens require less water and are less prone to insect and disease problems and the need for chemical maintenance. Less chemical input reduces pollution in our creeks and streams. By creating a Green Garden, you are helping to protect Austin's environment one yard at a time.







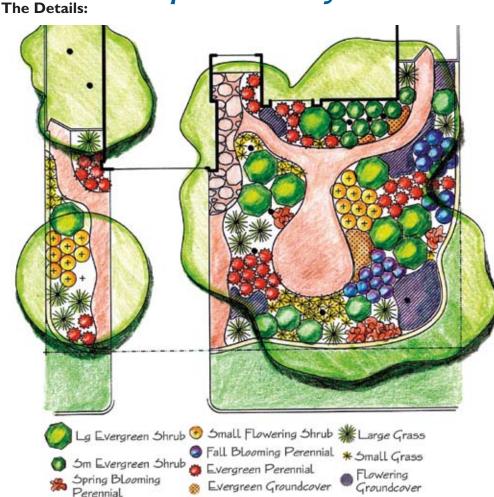


## Planning is...

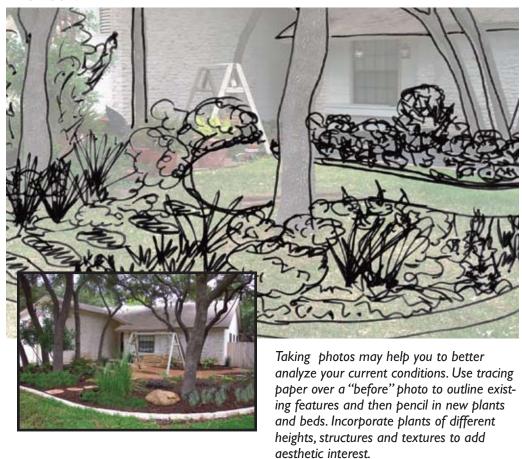
...the evaluation of what you already have in your landscape, and the creation of a clear road map to what you would like to achieve. Begin with the end in mind!

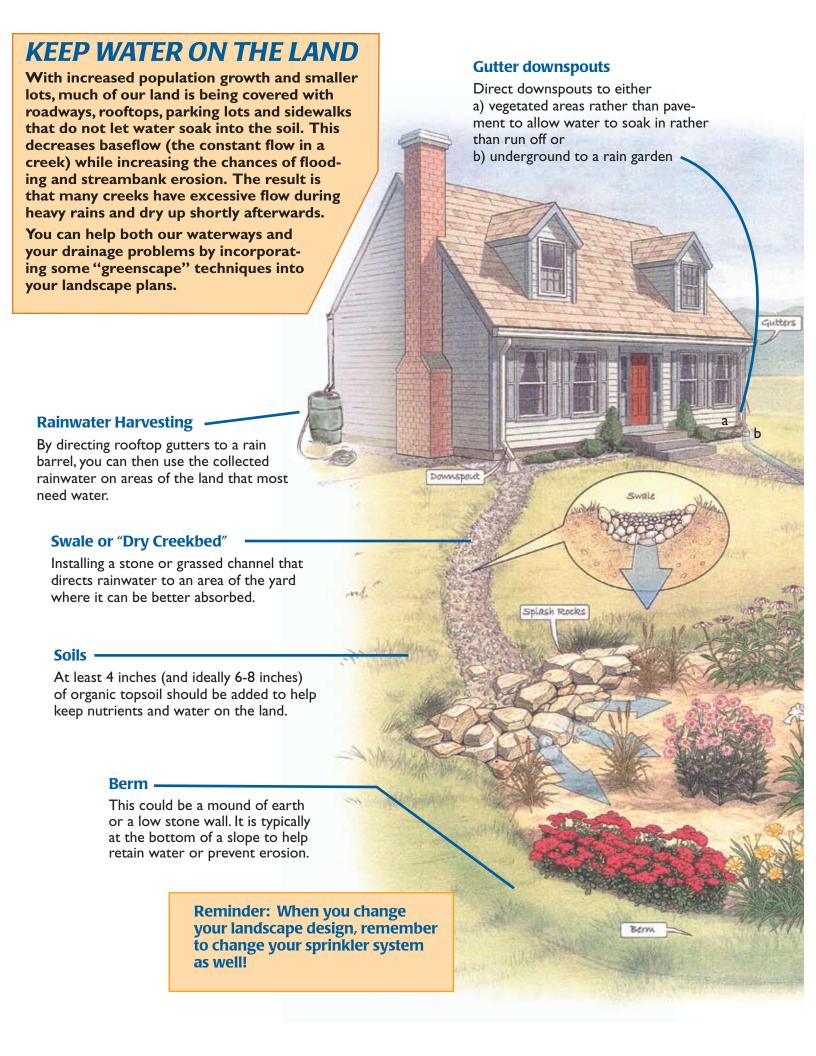
- Lifestyle Think about how you use your yard now, and how you would like to use it in the future, so you can design with those needs in mind. Lawns can demand significant maintenance (time, chemicals and water), so minimize turf areas when possible
- Current Conditions Evaluate
   the current conditions in your
   yard...where are the sun and shade?
   What views would you like to hide or
   enhance? How can you accommodate
   difficult conditions such as steep slopes,
   deer, problem soils or poor drainage?
- Seasons Take into account the different seasons. For example, many landscapes look great in spring, but lack winter interest. Once identified, this problem is easily corrected by adding a few interesting structural plants or evergreens
- Budget Realize that landscaping can be costly. As a rough estimate, allow for a budget of \$3-5 per square foot to be landscaped if you are doing the work yourself. Then create a budgetary timeline for completion of your project
- **Timing** Implement your plan in the following sequence:
  - Install hardscapes (sidewalks, paths, edges, etc.) and underground irrigation system if desired. Installing hardscapes after planting endangers plants that are already in the ground
  - Create beds before planting turf
  - Plant trees and shrubs
  - Install beds according to your own priorities – complete them in the order that is most satisfying to you

### **Optional Plan Layouts**



#### The Look:





#### Cross Section: Rain Garden

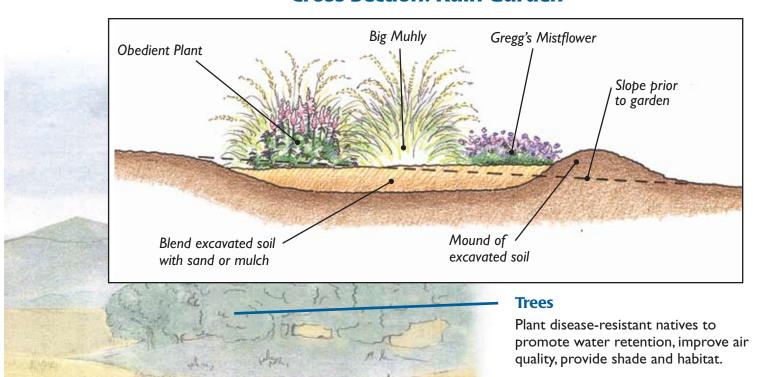


Illustration adapted from the Family Handyman, April 2007

Drainpipe

## **Porous Pavement**

An alternative to asphalt, porous materials contain voids to encourage water to infiltrate the land. Some options include bark mulch, gravel, pervious concrete, paving stones and tumbled glass.

#### Your Lawn As a Filter

Grass slows down water flow and allows infiltration. Lawn does best in an area that is nearly level and should not be treated with chemicals in order to reduce the potential for water pollution.

#### **Rain Gardens**

These gardens are designed to catch and store rainfall for short periods of time and then dry out; they can be filled with attractive plants and often help solve drainage issues in the yard. For details on rain garden design and plant choices, see the following page and visit www.growgreen.org/plants.htm.

### Transition is...

...the logical and efficient way to convert your yard to a green garden. For more information look for the **Grow Green Installation and** Maintenace fact sheet



St. Augustine was and donated to a Enriched soil was maintain healthier d to conserve water. ion system would be at this time

# **Step-by-Step Transition**



www.ci.austin.tx.us/greengarden/downloads/awgg\_form.pdf

or look for an application at a Grow Green nursery.

## Design is...

... the arrangement of plant and structural elements to satisfy your landscape plan

Use graph paper to draw up your design, and choose a scale of 1 inch = 10 feet (10 little squares per inch on your paper). This scale is good for many residential size projects, and using graph paper facilitates the placing of plants when you are ready for installation

Consider the following in your design:



 Proportion - keep the size of your plants proportional to the house and environment around you, i.e., smaller plants for smaller spaces, larger plants for larger spaces



 Variation in height - an interesting design has a variety of plant heights, from groundcover underfoot to vines and trees overhead



 Combination of evergreen and deciduous plants - having only evergreen plants creates a static, unchanging landscape, yet deciduous plants often have no winter appeal. Use a combination of both



 Plant texture - coarse-textured plants have large sturdy leaves that stand still and silent; fine-textured plants have feathery leaves that dance in the wind. Use a combination for added interest



 Seasonal interest - choose plants for interest in each season – structure, berries and bark for winter, flowers and foliage for the other seasons

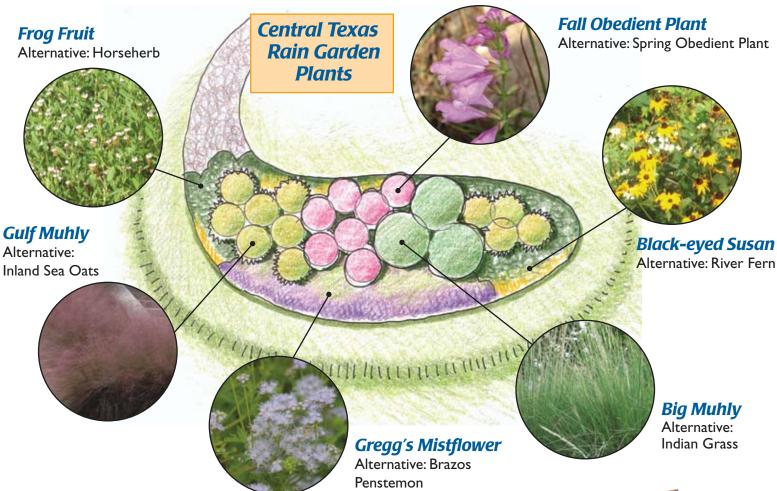


 Foliage color - if flowers aren't in season it is possible to have a colorful landscape using plants with different foliage color

#### Plant Choice and Placement

- See the Grow Green Native and Adapted Landscape Plant Guide for plants that thrive in central Texas.
   Copies are available at all Grow Green nurseries or online at www.growgreen.org
- Even native and well-adapted plants can have differing water and drainage requirements. Choose mainly drought-tolerant plants, and group them with others of similar needs
- If you select a few more waterneedy plants, group them together, and close to a source of water
- Put the right plant in the right place
   shade-loving plants in the shade,
   and sun-loving plants in the sun
- Pay careful attention to plant spacing. Even the tiniest acorn grows into a mighty oak. Plant young plants according to their adult space requirements to minimize crowding, pest and disease problems
- Design your yard to create more shade. It is an excellent way to save on water and cooling costs through the summer months

**Plants to Avoid** - Avoid invasive plants that escape from yards to take over natural areas. They choke out native species and upset the balance of the surrounding ecosystem. For a list of earthwise plants, look for a copy of the **Grow Green Native and Adapted Landscape Plant Guide**, or check the web at **www.growgreen.org** 



## KEEP DIRT AND MULCH OUT OF THE STORM DRAIN!

**Soil** is one of our most common pollutants. Bare dirt can erode during rainfall and travel to our creeks, clogging waterways, damaging fish gills and carrying chemicals with it. Solutions:

- Plant or mulch any bare soil
- Stabilize eroded areas as needed
- Install erosion controls if you are doing construction or landscaping projects

Caution: If you mulch a sloped area, make sure to contain any loose materials with edging so a heavy rain doesn't wash it away.



For a landscape design template that fits your needs and style, visit www.growgreen.org and click on Landscape Design!

#### **Become a Backyard Habitat**

Austin is one of America's first Wildlife Habitat Communities!

Learn how to certify your yard by visiting the

National Wildlife Foundation website at

www.nwf.org/backyard/

#### www.growgreen.org

