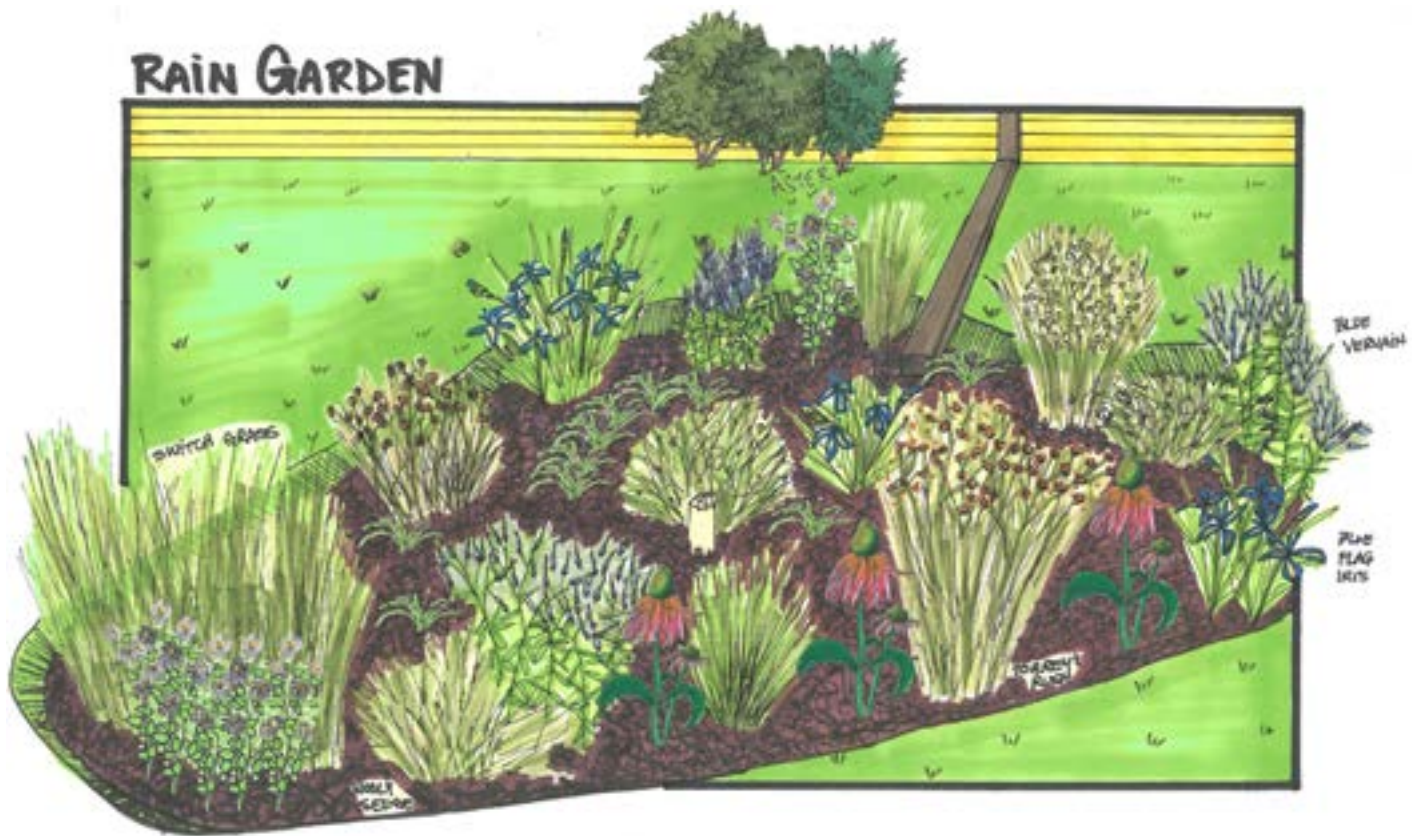


GET RAINREADY WITH RAIN GARDENS



WHAT IS A RAIN GARDEN?

Rain gardens are a nature-based solution that attracts water to natural depressions. Its beautiful native plants enhance landscaping while offering a place for water to sink into the ground rather than enter sewer pipes. While only for minor storm events, rain gardens nonetheless offer an effective solution to regular flooding.

WHY SHOULD I PLANT ONE?

The rich, engineered soils of rain gardens have increased capacity to hold water and are made to readily infiltrate water into the subsoil. They're better than regular lawns, which act like impervious surfaces and send water to streets and sewers.

TO LEARN MORE ABOUT THE PROGRAM, VISIT:
WWW.CNT.ORG

IF YOU HAVE QUESTIONS ABOUT THE PROGRAM, PLEASE CONTACT:
RAINREADYINFO@CNT.ORG

@RainReadyPlan

Rain Ready

#RainReady #FloodVictim

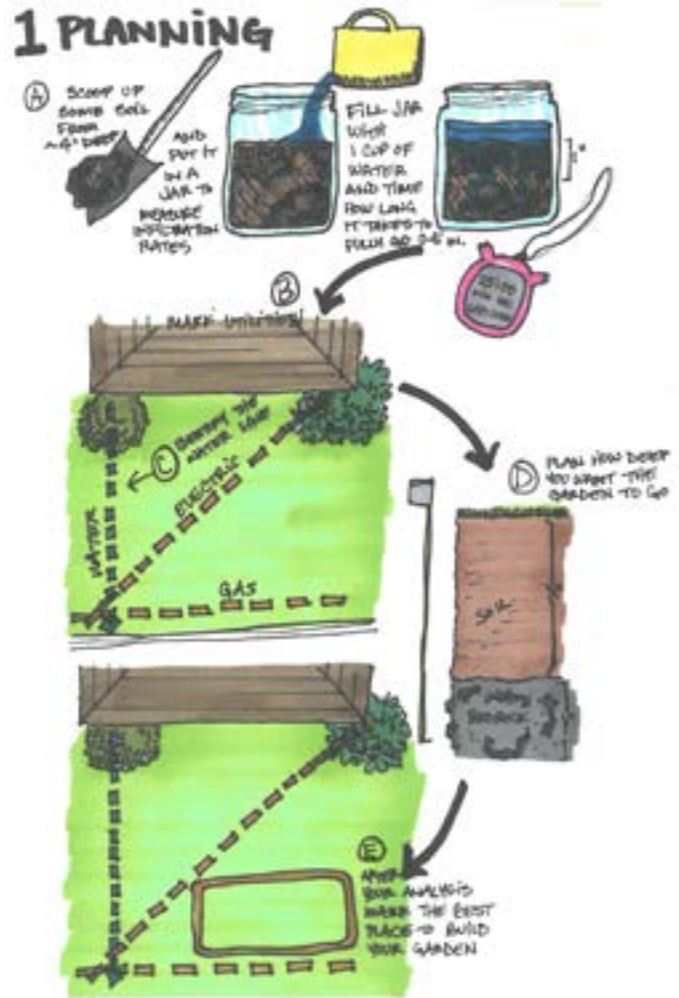
*RainReady is a program of the
Center for Neighborhood Technology*



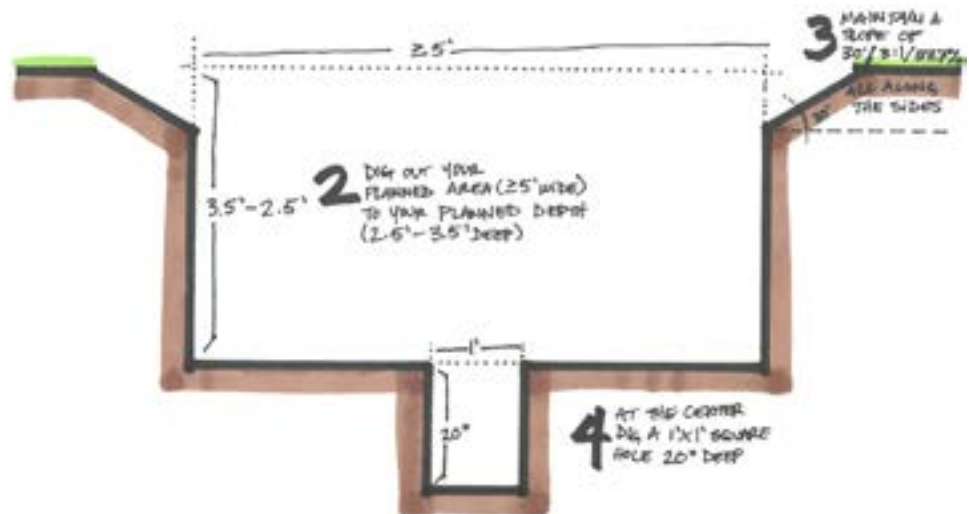
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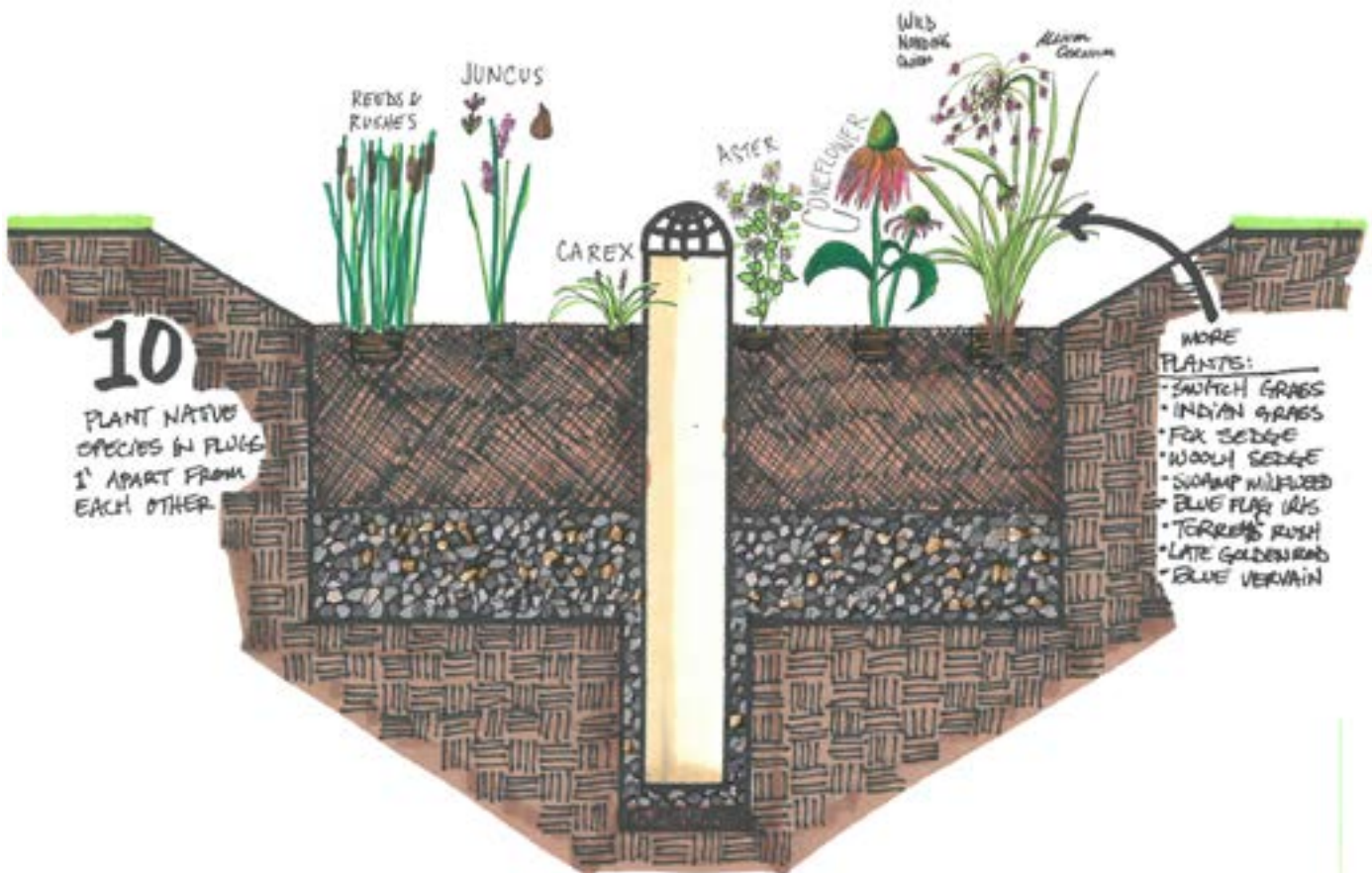
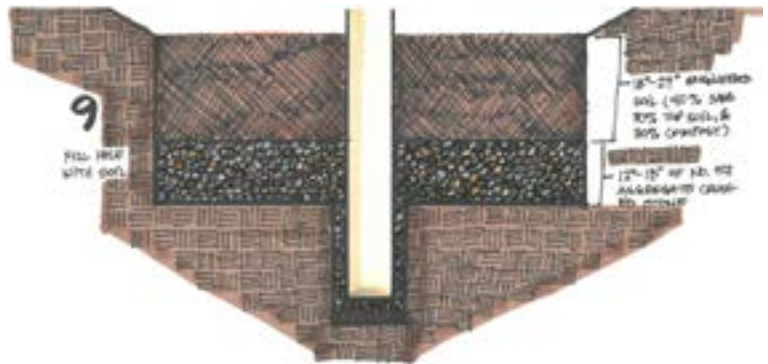
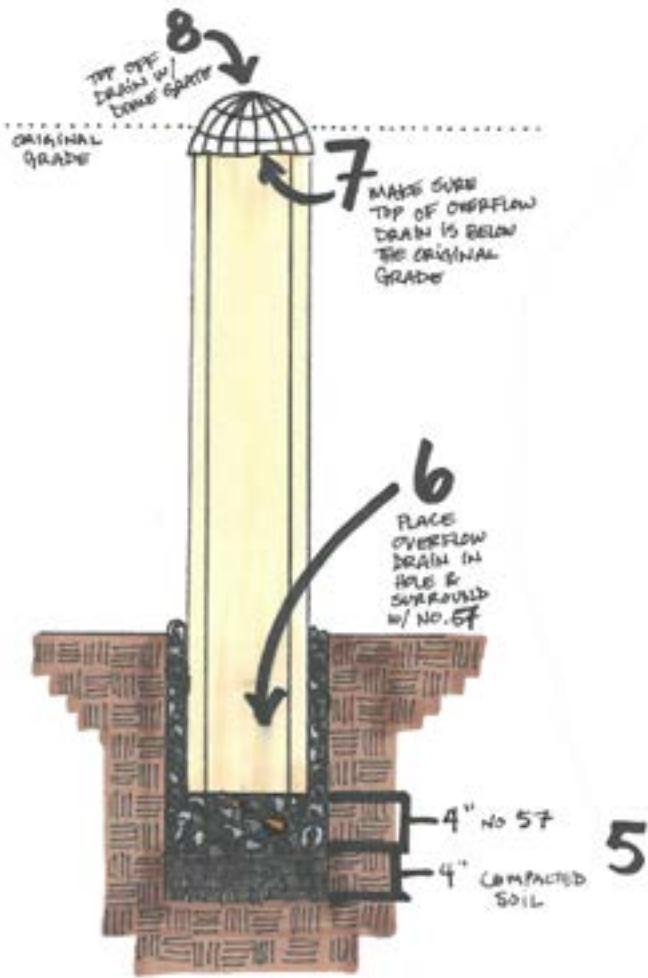
1. Plan

- a. Measure the overall infiltration rate of your existing soil
 - i. If the soil is ≥ 0.5 in/hr then you do not need an underdrain system and can skip steps 9-11
 - ii. If the soil is < 0.5 in/hr then you need an underdrain and a professional
- b. Call a utilities marking agency like J.U.L.I.E. to show there utilities lines are located on your property
- c. From here, if you are using an underdrain, think about where would be the best place to site based upon:
 - i. Connection to existing drain/sewer networks
 - ii. The edge of the garden being at least 10 feet away from the foundation line
 - iii. Maintaining a size that is twice as long as it is wide (2L : 1W) and is at minimum 5' wide
- d. Select the depths of your engineered soil.
 - i. Should maintain a ratio of 1.5 parts engineered soil mix to 1 part crushed stone (no. 57 aggregate, i.e. $\frac{3}{4}$ " crushed stone)
 - ii. Engineered soil mix should be 18" to 24"
 - iii. Crushed stone should be 12" to 18"
- e. When you have selected your site outline it with an environmentally friendly spray paint



- 2. Based upon you planned soil depth, dig that combined depth (should be between 2.5' to 3.5')
- 3. Along the sides of the outline maintain a slope 3:1 or 30° or 57.7% grade
- 4. At the bottom and center of the ditch dig a 1' x 1' square 20 inches deep for the overflow drain





5. Place 4" of compacted native soil in square covered by 4" of compacted crushed stone (no. 57 aggregate, i.e. 3/4" crushed stone)
6. Place overflow drain in hole and fill in the rest of the hole with crushed stone (no. 57 aggregate, i.e. 3/4" crushed stone)
7. Make sure the overflow drain top is a few inches below the natural grade
8. Place a dome grate on top of the overflow drain



9. Will in the rest of the area with soil
 - a. 12”-18” of crushed stone (no. 57 aggregate, i.e. $\frac{3}{4}$ ” crushed stone)
 - b. Then 18”-24” of engineered soil (40% sand, 30% topsoil, 30% compost compacted at 85%)
 - c. Leaving 2” for mulch
10. Plant native plants in plugs 1’ apart from each other’s centers
11. Cover with 2” of mulch leaving some open space 2” around plant’s center



SUGGESTIONS ON MAINTENANCE:

- Water thrice a week for the first month
- During the first year or during a drought water/weed garden twice per week
- During the first 3 years mulch and mow the plants annually
- For the garden’s lifetime remove debris and monitor the drainage system
- Replace plants as they die.
- Make sure to have a diversity of plant species, cultivars, and families

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