



5 Wetlands  
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| Rev | Description           | Date    |
|-----|-----------------------|---------|
| 1   |                       | 4/5/21  |
| 2   | Increased Rain Garden | 6/1/21  |
| 3   | Increased Plant Size  | 6/23/21 |

Notes:

# Rain Garden

### Engineered Soil Mix

The compost component must be processed from yard waste in accordance with MassDEP Guidelines (see <http://www.mass.gov/dep/recycle/reduce/leafguid.doc>). The compost shall not contain biosolids.

| Vegetation     |                   |          |
|----------------|-------------------|----------|
| Swamp Dogwood  | Cornus amomum     | 2 ft     |
| Arrow-wood     | Viburnum dentatum | 2 ft     |
| Speckled Alder | Alnus incana      | 2ft      |
| Switch Grass   | Panicum virgatum  | 1 Gallon |

| Bioretention Maintenance Schedule |                |                         |
|-----------------------------------|----------------|-------------------------|
| Activity                          | Time of Year   | Frequency               |
| Inspect & remove trash            |                | Monthly                 |
| Mulch                             | Spring         | Annually                |
| Remove dead vegetation            |                | Fall or Spring Annually |
| Replace dead vegetation           |                | Spring Annually         |
| Prune                             | Spring or Fall | Annually                |

The soil mix for bioretention areas should be a mixture of sand compost and soil.  
40 % sand,  
20-30% topsoil, and  
30-40% compost.

The sand component should be gravelly sand that meets ASTM D 422.  
Sieve Size Percent Passing  
2-inch 100  
¾-inch 70-100  
¼-inch 50-80  
U.S. No. 40 15-40  
U.S. No. 200 0-3

The topsoil component shall be a sandy loam, loamy sand or loam texture.

### Plant Schedule

| Symbol | Common Name    | Latin Name        | Size     | Quantity |
|--------|----------------|-------------------|----------|----------|
|        | Silky Dogwood  | Cornus amomum     | 3-4 Ft   | 13       |
|        | Arrow-wood     | Viburnum dentatum | 3-4 Ft   | 8        |
|        | Speckled Alder | Alnus incana      | 18-24 In | 13       |
|        | Switch Grass   | Panicum vergatum  | 18-24 In | 23       |

Seed with New England Wet Mix at 1 lb./2500 sq. ft (0.5 lbs)  
Mulch shrubs to 3 ft in diameter or use coco tree mats.

### Cross-Section Rain Garden

