CONSTRUCTION INSPECTIONS

1. CALL THE QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS AT 410-758-0925 PRIOR TO CONSTRUCTION AND IMMEDIATELY FOLLOWING EACH OF THE FOLLOWING PHASES:

2. EXCAVATION TO SUBGRADE AND BEFORE PLACEMENT OF SOIL.

3. FINE GRADING AND PERMANENT STABILIZATION OF ADJACENT SOILS.

SIZING CHART

<table>
<thead>
<tr>
<th>TREATED AREA (sq.ft.)</th>
<th>RAINGARDEN AREA (sq.ft.)</th>
<th>PVC SIZE</th>
<th>SUGGESTED DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>70</td>
<td>4&quot;</td>
<td>14</td>
</tr>
<tr>
<td>1000</td>
<td>140</td>
<td>6&quot;</td>
<td>20</td>
</tr>
<tr>
<td>1500</td>
<td>210</td>
<td>6&quot;</td>
<td>24</td>
</tr>
<tr>
<td>2000</td>
<td>280</td>
<td>8&quot;</td>
<td>30</td>
</tr>
</tbody>
</table>

MINIMUM SETBACKS

1. 10 FEET FROM A BUILDING OR PROPERTY LINE
2. 25 FEET FROM A SEPTIC RESERVE AREA
3. 15 FEET FROM A DEEP WELL
4. 25 FEET FROM A SHALLOW WELL

USE EXCAVATED SOIL TO FORM 6" BERM AROUND RAINGARDEN

RAIN GARDEN CROSS SECTION
(THROUGH LONG DIMENSION)

SINGLE LOT RESIDENTIAL ONLY
WET SOIL RAINGARDEN CONSTRUCTION DETAIL

STANDARD NO. SLR–106.01
CONSTRUCTION NOTES

1. RAIN GARDENS SHALL BE CONSTRUCTED AFTER ALL UPSTREAM AREAS HAVE BEEN STABILIZED WITH EITHER IMPERVIOUS SURFACES OR TOPSOIL AND VEGETATION.

2. RAIN GARDEN EXCAVATION SHALL BE ROUGH AND UNCOMPACTED. IF SLOPING OF BOTTOM OR WALLS OCCURS, SCRATCH WITH A RAKE AS NECESSARY TO EXPOSE ROUGH EARTH.

3. LANDSCAPING MATERIALS SHOULD BE INSTALLED DURING THE SPRING OR FALL IF POSSIBLE.

4. OVERFLOW FROM RAIN GARDEN SHALL BE DIRECTED OVER A 3" DEEP BY 10' WIDE DEPRESSION IN THE PERIMETER BERM AND SHALL NOT BE A SOURCE OF DOWNSTREAM EROSION.

5. THE OWNER IS ENCOURAGED TO ENHANCE THE VISUAL APPEAL OF THE RAIN GARDEN BY USING STONE OR TIMBER RETAINING WALLS INSTEAD OF USING EXCAVATED SOIL. EPDM LINER MAY BE NEEDED TO MAKE A WATERTIGHT WALL.

SOIL SPECIFICATIONS

1. THE RAIN GARDEN PLANTING SOIL SHALL HAVE A COMPOSITION OF 50% SAND, 20% WOOD CHIPS LEAVES, AND 30% TOPSOIL.

2. SOIL SHALL BE OF UNIFORM COMPOSITION, FREE OF STONES, STUMPS, ROOTS OR SIMILAR OBJECTS LARGER THAN ONE INCH.

3. SOIL SHALL BE FREE OF DEBRIS AND PLANTS (OR PLANT PARTS) OF BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, MUGWORT, NUTSEDGE, POISON IVY, OR CANADIAN THISTLE.

4. PLANTING SOIL SHALL BE OVERFILLED BY 2-3" TO ALLOW FOR SETTLING. DO NOT COMPACT.

MAINTENANCE CRITERIA:

1. WATER PLANTS LIBERALLY THE FIRST GROWING SEASON AND DURING PERIODS OF DROUGHT THEREAFTER.

2. REMOVE ACCUMULATED TRASH AND VEGETATIVE DEBRIS EVERY FEW MONTHS AND ENSURE THAT INFLOW PIPE(S) FLOW FREELY.

3. PRUNE AND REMOVE DEAD VEGETATION PERIODICALLY, AS WITH ANY LANDSCAPE BED. IF SPECIFIC PLANTS ARE NOT SURVIVING, REPLACE WITH A DIFFERENT SPECIES. WATERING MAY BE REQUIRED DURING PROLONGED DRY PERIODS.

4. SILTS AND SEDIMENT SHOULD BE REMOVED FROM THE SURFACE OF THE FILTER BED WHEN ACCUMULATION EXCEEDS ONE INCH. THE TOP FEW INCHES OF FILTER MEDIA SHOULD BE REMOVED AND REPLACED WHEN WATER PONDS FOR MORE THAN 48 HOURS.

5. REFRESH MULCH WITH AN ADDITIONAL THIN LAYER ANNUALLY. REMOVE ALL MULCH AND REPLACE WITH A NEW THREE-INCH LAYER EVERY 3-5 YEARS.
### WET SOIL RAIN GARDEN PLANTING SCHEDULE

<table>
<thead>
<tr>
<th>BOTANICAL NAME</th>
<th>COMMON NAME</th>
<th>Symb.</th>
<th>Size</th>
<th>RAIN GARDEN SIZE (sq.ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>70</td>
</tr>
<tr>
<td></td>
<td></td>
<td>QTY.</td>
<td>QTY.</td>
<td>QTY.</td>
</tr>
<tr>
<td>CLETHRA ALNIFOLIA</td>
<td>SWEET PEPPERBUSH</td>
<td>CA</td>
<td>2 GAL.</td>
<td>1</td>
</tr>
<tr>
<td>ITEA VIRGINICA</td>
<td>VIRGINIA SWEETSPIRE</td>
<td>IV</td>
<td>2 GAL.</td>
<td>1</td>
</tr>
<tr>
<td>WIBURNUM NUDUM</td>
<td>SMOOTH WITHEROD</td>
<td>VN</td>
<td>2 GAL.</td>
<td>1</td>
</tr>
<tr>
<td>GROUND COVER:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CALAMAGROSTIS CANADENSIS</td>
<td>BLUE JOINT GRASS</td>
<td>CC</td>
<td>PLUG</td>
<td>6</td>
</tr>
<tr>
<td>HELENIUM AUTUMNAE</td>
<td>YELLOW SNEEZEWEEED</td>
<td>HA</td>
<td>PLUG</td>
<td>6</td>
</tr>
<tr>
<td>LOBELIA CARDINALIS</td>
<td>CARDINAL FLOWER</td>
<td>LC</td>
<td>PLUG</td>
<td>6</td>
</tr>
</tbody>
</table>

**PLANTING EXAMPLE**

FOR 140 sq.ft. RAIN GARDEN

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**PLANT SELECTION**

1. **THE OWNER IS ENCOURAGED TO WORK WITH A REGISTERED LANDSCAPE ARCHITECT OR NURSERY TO CREATE AN ATTRACTIVE AND FUNCTIONAL MIX OF NATIVE PLANT SPECIES THAT ARE TOLERANT OF BOTH SATURATED AND DRY CONDITIONS.**

2. **INFORMATION ON APPROPRIATE SPECIES IS AVAILABLE BY TYPING "BAYSCAPES NATIVE PLANTS" INTO YOUR FAVORITE SEARCH ENGINE.**

3. **THE SCHEDULE AND TYPICAL DETAIL BELOW CAN BE USED AS A BASIS FOR PLANT SELECTION AND GROUPINGS, IF DESIRED.**

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**APPROVED 12/09/15**

**DATE**

**DIRECTOR, DEPT. OF PUBLIC WORKS**

**OF LEMANIAH**

**CHIEF OF ENGINEERING**

**SCALE:**

**NO SCALE**

**QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS**

**SINGLE LOT RESIDENTIAL ONLY**

**WET SOIL RAIN GARDEN PLANTING NOTES & SCHEDULE**

**STANDARD NO. SLR-106.03**