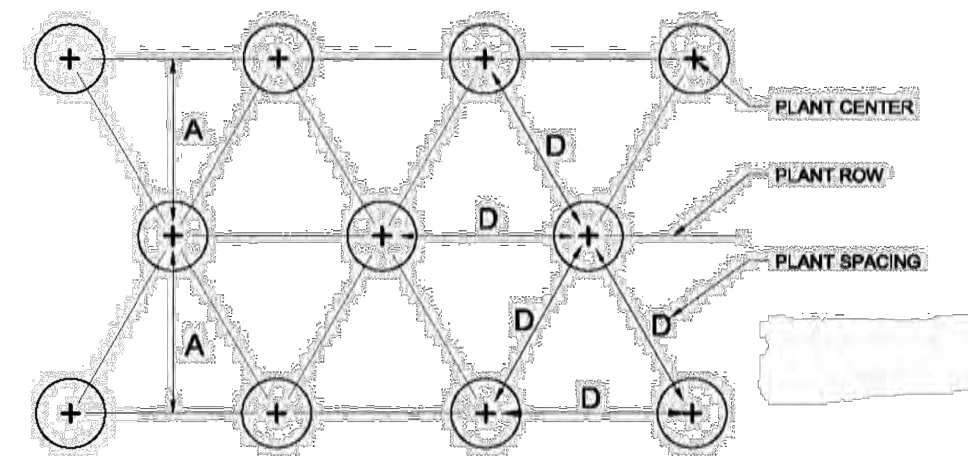
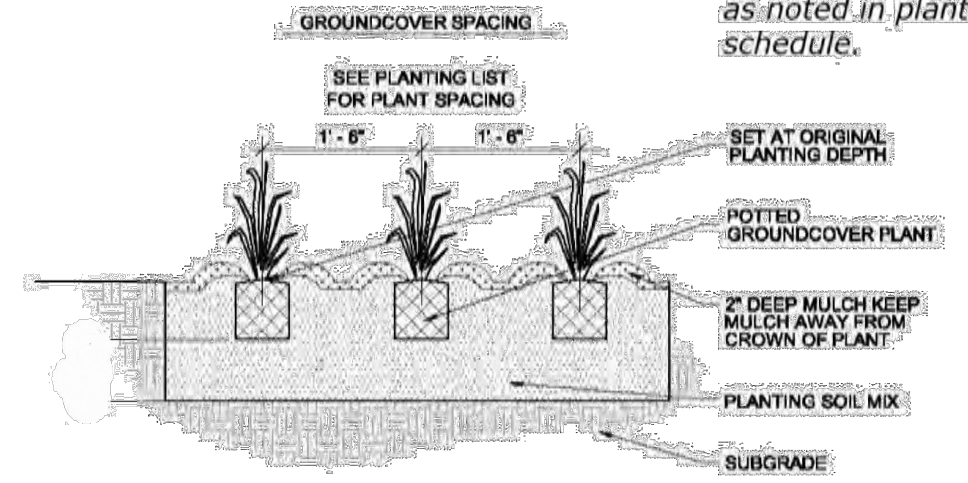


SPACING "A"	ROW "B"	NUMBER OF PLANTS/SQ. FT.
30"	20"	1.90
24"	20"	2.25
18"	15.0"	4.50
18"	13.0"	6.40
12"	10.4"	1.00
10"	8.68"	1.44
8"	6.93"	2.25

NOTE: PLANT QUANTITIES WERE DETERMINED BY MULTIPLYING AREA (SQ. FT.) BY NUMBER OF PLANTS/SQ. FT. FOR REQUIRED SPACING.



Quantity of plants as noted in planting schedule.



NOTES:
 1. REMOVE SPENT FLOWERS PRIOR TO PLANTING.
 2. LOOSEN ROOT MASS AT BOTTOM OF ROOTBALL.
 3. TOP OF ROOTBALL STRIPPED OF 1/2" SURFACE GROWING MEDIA AND COVERED WITH 1/2" LANDSCAPE BED MIX PLUS SURFACE MULCH.

Plant Spacing Plan
 N.T.S. Planting Detail Courtesy of Ted Spaid
 SWT Design, St. Louis, MO

Figure 9 MSD Landscape Guide for Stormwater Best Management Practices

The planting soil should be a sandy loam or loamy sand (should contain a minimum of 60 percent sand, by volume). The clay content for these soils should be less than 10 percent by volume. A saturated hydraulic conductivity of at least 1.0 feet per day (0.5 inches per hour) is required. (Without post-construction verification, a conservative default value of 0.5 feet per day is acceptable. The design rate may be increased to 2 feet/day if field observation, post-construction infiltration testing, or other equivalent testing (as determined by the District) is provided to confirm the design rate is achieved.) The soil should be free of stones, stumps, roots, or other woody material over 1 inch in diameter. For best results, brush or seeds from noxious weeds, such as Johnson grass, mugwort, nutsedge and Canadian thistle should not be present in the soils. Placement of the planting soil should be in lifts of 12 to 18 inches, loosely compacted (rubber wheeled heavy equipment and mechanical tamping devices are not recommended for compaction). The specific characteristics are presented in the following table.

Table 1: Planting Soil Characteristics. Source: Maryland Stormwater Manual

Parameter	Value
pH range	5.2 to 8.00
Organic matter	1.5 to 5.0%
Magnesium	35 lbs. per acre, minimum
Phosphorus (P ₂ O ₅)	75 lbs. per acre, minimum
Potassium (K ₂ O)	85 lbs. per acre, minimum
Soluble salts	≤ 500 ppm

MSD Landscape Guide for Stormwater Best Management Practices
 Planting, Water and Mulch Requirements for Stormwater BMPs

Table 3: Planting, Water and Mulch Requirements

Water Availability	Required Planting Period	Minimum Container Size	Water Requirement First 3 Weeks*	Water Requirement After 3 Weeks*	Maximum Mulch Depth****
No ability to water after	Late Feb. – April only	2.25" x 3.75" or larger	Water each plug immediately		1.5 for plugs
Manual watering with standard sprinkler	Late Feb. – Early June Sept. – October	4.5" x 5" (quart) or larger in summer & fall	1" (60 min) every 4 days	1" (60 min) every 7 days until plants established***	1.5" for plugs 2.5" for quarts
Automatic irrigation (set to water more frequently than normal during first two months after planting)	Late Feb. – Early Oct.	2.25" x 3.75" (plug) or larger in spring 4.5" x 5" (quart) or larger in summer & fall	1" (60 min) every 4 days in spring and fall 1" (60 min) every 3 days in summer	1" (60 min) every 7 days until plants established***	1.5" for plugs 2.5" for quarts

*This water amount includes natural rainfall. If you get a 1/8 inch of natural rain then you will need to add a 1/8 inch of water to meet the 1 inch requirement.
 **Requires transport of water to the planting site in large containers and pouring enough water onto each plant (after planting) to moisten the entire planting pit.
 ***Plants are established when roots have grown out of the container soil and into the native soil by 3-5 inches. This normally takes 3-4 months for most perennials and grasses and up to 6-7 months for trees and shrubs.
 ****Shredded leaf compost is recommended for use with perennials and grasses. Shredded bark mulch is recommended for tree and shrub plantings at a depth of 3 inches.

PROJECT TITLE:
 CULVERS OF O'FALLON-
 BRAMBLETT CROSSING

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 Developer/Owner Under Contract: KK+G, LLC.
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 BMP – Planting Plan

P+Z No.: 3805.08.02
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 01/07/2016
 City No.

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