SEQUENCE OF CONSTRUCTION OF BIORETENTION BASIN WITH SORBTIVE MEDIA

Bioretention Basin preparation

 Remove all soil and accumulated sediment, and excavate Bioretention Area to proposed depth per drawings. During all construction activities, use relatively light, tracked equipment to avoid compaction of the basin floor and Bioretention Area. After final grading is completed, deeply till the basin floor with rotary tillers or disc harrows to provide a well-aerated, highly porous surface texture.

If applicable, install the infiltration chambers, piping, manifolds, drains, cleanouts, and infiltration stone as specified on the plan.

3. Line all sides of the Bioretention Basin with a non-woven geotextile filter fabric.

Specified Sorbtive MEDIA Amended Bioretention soil (sand, organic, Sorbtive Media)

4. Fill Bioretention Basin with specified Sorbtive MEDIA Amended Bioretention soil (sand, organic, Sorbtive Media) as shown in the plans and detailed in the specifications.

- Install mulch or stone layer as called out in the design.
- Install vegetation and ground cover specified in the planting plan for Bioretention Area.
- Place sod, erosion control fabric, or non erosive lining in the inlet channel. Upon stabilization of all disturbed areas, remove all sediment controls, unblock curb
- openings, and provide drainage to the Bioretention Areas.

BIORETENTION AREA PLANTING SPECIFICATION

Sorbtive MEDIA Amended Bioretention Soil

The Bioretention Basin shall contain a soil mixture amended with Sorbtive Media specified by the Engineer of Record. The Sorbtive Media Amended Bioretention Soil varies per project. A typical Sorbtive MEDIA Amended Bioretention Soil mixture by volume is 5 to 15% Sorbtive Media, 65 to 85% sand, and 10 to 20% organic. Mulch

A natural hardwood shredded mulch layer 3-inches (75 mm) in depth, uniform in color, and free of foreign material including plant material, without dyes shall be provided on top of the Bioretention Basin, or 1-2 inch diameter stone as called out in the design. Sand

The sand used to produce the Sorbtive MEDIA Amended Bioretention soil mixture shall be ASTM C-33 Concrete Sand or equivalent and free of deleterious material. Compaction

Soil shall be placed in lifts less than 12 inches (300 mm) and lightly compacted (minimal compaction effort) by tamping or rolled with a hand-operated landscape roller

Bioretention Area Planting Specifications:

Plantings are site specific. Native plant vegetation to be specified by the Engineer of Record. Root stock of the plant material shall be kept moist during transport from the source to the

- job site and until planted.
- Walls of planting pit shall be dug so that they are vertical.
- The diameter of the planting pit must be a minimum of six inches (6") larger than the diameter of the root ball.
- 5. The planting pit shall be deep enough to allow 1/8 of the overall dimension of the root ball to be above grade. Loose soil at the bottom of the pit shall be tamped by hand.
- 6. The plant shall be removed from the container and placed in the planting pit by lifting and carrying the plant by its' ball (never lift by branches or trunk).
- 7. Set the plant straight and in the center of the pit so that approximately 1/8 of the diameter of the root ball is above the final grade.
- Backfill planting pit with existing Bioretention Media Mixture soil.
- Make sure plant remains straight during backfilling procedure.

Maintenance/Inspection Guidelines:

Never cover the top of the root ball with Bioretention Media Mixture soil. Mound

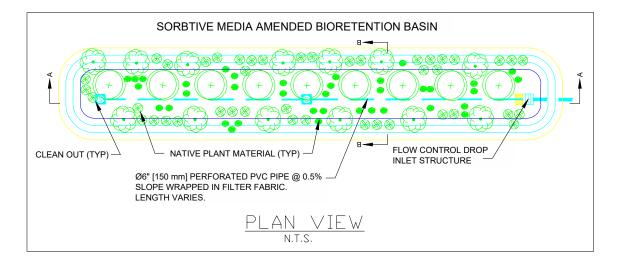
- Bioretention Media Mixture soil around the exposed ball. 2. Trees shall be braced by using 2" by 2" white oak stakes. Stakes shall be placed parallel to walkways and buildings. Stakes are to be equally spaced on the outside of the tree root ball. Utilizing hose and wire to protect the tree, the tree is braced to the stakes.
- Because of the high levels of nutrients transported in the stormwater runoff to be treated, Bioretention basin plants should not require chemical fertilization.

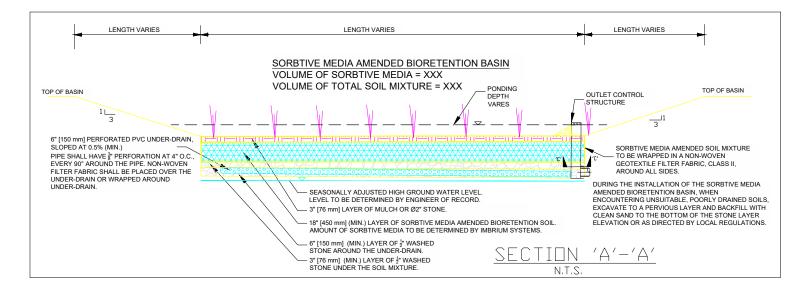
SITE SPECIFIC DATA REQUIREMENTS								
SORBTIVE MEDIA AMENDED BIORETENTION BASIN								
STRUCTURE		*						
WATER QUA		XXX						
PEAK FLOW		XXX						
VOLUME OF	ED (CF)	XXX						
ESTIMATED		XXX						
SORBTIVE M		7X14						
ESTIMATED	(%)	XXX						
PIPE DATA:	I.E.	MAT'L	DIA	SLOPE %	HGL			
INLET #1	*	*	*	*	*			
INLET #2	*	*	*	*	*			
OUTLET	*	*	*	*	*			
* PER ENGINEER OF RECORD								

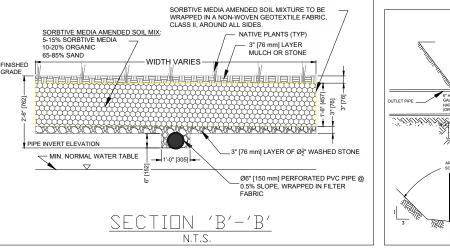
INFORMATION TO BE SUPPLIED BY ENGINEER OF RECORD

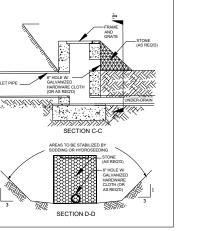
FOR SITE SPECIFIC DRAWINGS PLEASE CONTACT YOUR LOCAL SORBTIVE MEDIA REPRESENTATIVE. SITE SPECIFIC DRAWINGS ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME. SOME FIELD REVISIONS TO THE SYSTEM LOCATION OR. CONNECTION PIPING MAY BE NECESSARY BASED ON AVAILABLE SPACE OR SITE CONFIGURATION REVISIONS. ELEVATIONS SHOULD BE MAINTAINED EXCEPT WHERE NOTED ON BYPASS STRUCTURE.

DRAWING NOT TO BE USED FOR CONSTRUCTION











MATERIAL

* 0.858 m³

<u>_ LIST</u>				
DESCRIPTION	PROVIDED BY			
SORBTIVE MEDIA *	IMBRIUM			
SAND	OTHERS			
ORGANIC	OTHERS			
$\frac{1}{2}$ " WASHED STONE	OTHERS			
Ø6" PERFORATED SCH 40 PVC PIPE	OTHERS			
FLOW CONTROL STRUCTURE	OTHERS			
MULCH OR STONE	OTHERS			
NON-WOVEN GEOTEXTILE FABRIC	OTHERS			
³ (30.3 CF) = 1 SUPERSACK (2,000 LBS) SORBTIVE MEDIA				

SORBTIVE MEDIA AMENDED BIORETENTION BASIN		DUPUNE INECIA	Scale = 1.40	inbriumsystems.com
	imbrium.	7037 RIDGE ROAD, SUITE 350, HANOVER, MD 21076 866-740-3318 410-796-5505 866-376-8511 FAX	Sorbtive [®] Media	MM
DATE:	#####	####		
DESIGNED:		DRAWN:		
BSF		BSF APPROVED:		
CHECKED: SP		APPRO BS		
PROJECT N	o ·			
		+++++		
SHEET:	###	###		

IMBRIUM PROPOSAL DRAWING

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and information shown on this d a service to the project owner, e, y Imbrium Systems ("Imbrium"), r any part thereof, may be used, in any manner without the prior.

The design provided as contractor b drawing, noi or modified consent of li user's own r liability or re

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DESCRIPT

DATE

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