



BIO RETENTION SYSTEM SPECIFICATION

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PART 1: GENERAL

- A. **Bio Retention Media Layer** Upper 6 – 18 inches.
- B. **Drainage / Filter Layer** Lower 12 – 36 inches

(Actual depths are determined by plant selection, storm water volume, pollutants to be filtered, etc.)

PART 2: COMPONENTS

- A. **Bio Retention Media Layer**
 - a. Vitrified Shale Conditioner 50%
 - b. Screened Loamy Topsoil 25%
 - c. Approved Compost 25%
- B. **Drainage Filter Layer**
 - a. 3/8” graded Expanded Shale Aggregate

PART 3: PRODUCTS

- A. **Vitrified Shale Products**
 - a. Vitrified Shale Conditioner
 - b. 3/8” Expanded Shale Aggregates
- B. ***Approved Organic Matter**
 - pH 6 – 8
 - Soluble Salts <5
 - Sodium Adsorption Ratio <10
 - Carbon / Nitrogen Ratio <20:1
 - Moisture % 25 – 35
 - Coarse Material 98% Passing 3/8”

**Note: Organic Materials must have favorable characteristics and properties. Low-quality organic materials can have a detrimental effect on the over-all success of the planting media.*

PART 4: PLACEMENT PROCEDURE

1. Place Drainage / Filter Layer directly over the base layer at specified depth to meet fill and grade shape requirement.
2. Place Bio Retention Media Layer directly over the drainage / filter layer at specified depth to meet fill and grade shape requirement.