General VFS Schematic

Sheet Flow Length Determines Applicable Level Spreading Options.

Drainage Area

Flow Separating/Level Spreading Device

Vegetated Filter Strip

Min. 1 to 2-in. Drop

Sheet Flow

8% Max Slope

2 to 3-ft. (Typ.)

Stone Trench

1-ft. (Typ.)

For sheet (non-concentrated) flow length < 25-ft to VFS, stone trench may be used.

Min. 1-ft Level Spreader Lip

6" Drop (Min.)

Min. 3-ft

#57 Stone on Class 2. Non-Woven Geotextile Fabric

Min. 1-ft

Perforated Underdrain (Drains into Bypass Flow Conveyance, see WQ-13)

For concentrated flow or sheet flow length 25-ft or greater to VFS, construct level spreader per WQ-13.*

*Poured concrete level spreader shown, other installation methods from WQ-13 may be applicable based on site classification.

Notes:
- Preferred installation of vegetation for VFS is sodding with turfgrass sod.
- Do not use Bermuda grass for VFS applications.
- Do not remove trees to create the necessary VFS area.
- Natural vegetation may be used for VFS if it consists of existing dense herbaceous vegetation with minimum cover of 90%, slopes are acceptable, and county approval is given.
- Vegetation must be established prior to VFS receiving flow.