CHAPTER 3
ST-G20GEN-1.12

ENGINEERING STANDARDS

CIVIL
LOW IMPACT DEVELOPMENT
FILTER MEDIA

1. IF THIS SHEET IS NOT 24" X 36" USE GRAPHIC SCALE ACCORDINGLY.

GENERAL NOTES:

NOTES FOR DESIGNER:

[DO NOT INCLUDE ON CONSTRUCTION DRAWINGS]

DESIGN LIMITATIONS:

1. DESIGNED TO TREAT CONTRIBUTING DRAINAGE AREAS THAT ARE LESS THAN 5 ACRES.

SITING CRITERIA:

1. TYPICALLY PLACED ALONG THE PERIMETER DRAINAGE AREAS.
2. DO NOT INSTALL WHERE EROSION VELOCITIES AND HIGH SEDIMENT LOADS ARE A CONCERN.
3. DO NOT INSTALL WHERE CONSTRAINTS WILL NOT ALLOW FOR REQUIRED MEDIA THICKNESS OR PONDING DEPTH.
4. FILTER MEDIA FUNCTIONALITY IS PROPORTIONAL TO DEPTH OF TUFF (ROCK)
   FOUR FEET MIN. DEPTH REQUIRED.

DESIGN CRITERIA:

1. MEDIA SHALL BE SPECIFIED IN PLANS.
2. THE TOP OF THE BASKET FILTER SHOULD BE LEVEL.
3. INSTALL BI-LINEAR TRENCH, CHANNELS, OR IN OPEN BASINS OR PONDS.
4. INSTALL IN PROPERLY SLOPED OR LEVEL USAGE AREAS.
5. FORBID OR DEEM CATCHMENT FEATURE REQUIRED FOR USE WITH ALL MEDIA FILTERS TO PREVENT CLOGGING AND TO DISSIPATE FLOWS.
6. AT MIN PROVIDE ONE (1) UNDER DRAIN PER 1950 S.F. OF SURFACE AREA.
7. INSTALL UNDER DRAINS WITHIN 20 FEET OF A BUILDING CENTER.
8. INSTALL UNDER DRAINS WITHIN SLOPE 1% TO OUTLET END.
9. AT A MIN, INCLUDE CLEAN OUT PIPES AT EACH END OF THE UNDER DRAIN.
10. MIN. DIAMETER UNDER DRAIN PIPES
11. AVISE FILTER FABRIC BETWEEN MEDIA LAYERS AND AROUND UNDER DRAIN PIPES.

CONSTRUCTION CRITERIA:

1. IDENTIFY APPROPRIATE MATERIALS AND HOLD POINTS FOR INSPECTION AND APPROVAL DURING CONSTRUCTION.
2. PROVIDE ACCESS FOR MAINTENANCE.

NOTES:

1. IF THE INFILTRATION RATE BENEATH THE FILTER MEDIA IS LESS THAN 0.5 INCH/HR, AN UNDER DRAIN IS REQUIRED. MIN. 4" DIAMETER UNDER DRAIN PIPES WITH MACHINED SLOTS OR PERFORATIONS.

2. GRAVEL MULCH AT TOP OF BASIN (OPTIONAL)

3. CHOKING STONE, 2" MIN. DEPTH AND ON EACH SIDE OF PIPE

4. MIN. 3" WASHED STONE (#57) ABOVE AND ON EACH SIDE OF PIPE

5. CLEAN ASPHALT WASHED 0-5 MEDIUM AGGREGATE CORRECTED TO GRADE. 30% ORGANIC MATTER SPECIFIED IN PLAN

6. WIDTH VARIES

7. MEDIA SECTION

8. 2" X 1'-0"