Greenville County
Storm Water Management

**POROUS BAFFLE SYSTEMS**

**SECTION VIEW (SINGLE LAYER)**
- Baffle material buried in 6" x 6" trench, backfill & compact trench or use 12" anchors spaced at 1' intervals
- Flow
- Soil stabilization plate
- 1.25 lbs/ft steel post
- Single layer: if needed add support wire to prevent sagging
- Double layer: support wire required
- Ensure post is located at start of sideslopes

**SECTION VIEW (DOUBLE LAYER)**
- Each layer of baffle material buried in a 6" x 6" trench, backfill & compact trenches or use 12" anchors spaced at 1' intervals
- Flow
- Soil stabilization plate
- Support wire required for double layer of baffle material
- Secure both layers with heavy duty plastic or wire ties for steel posts spaced 6" max

**CROSS SECTION VIEW**
- Use 12" anchors (stakes, pins, staples) spaced at 1' intervals to secure porous baffle to basin bottom or trench & backfill
- Cross section view
- 4'-ft (max)
- 5 ft min post height varies

**NOTES:**
- Secure baffle material to the bottom and sides using 12" anchors or by trenching.
- Most sediment accumulates in the first bay, and should be readily accessible for maintenance.
- Provide 3 rows of baffles evenly spaced at 1/3 basin length (or 2 rows evenly spaced at 1/3 basin length if basin is less than 25 feet in length).
- Use steel posts. Wood posts are not allowed.
- Attach baffle material on upstream side of steel post with heavy duty plastic or wire ties evenly spaced to prevent sagging or tearing of baffle material.
- Space heavy duty ties at 6" max. intervals
- When a double layer of porous baffle material is used, a support wire is required. Both layers shall be trenched or anchored to the basin bottom and sides and secured to posts with heavy duty ties.

**PLAN VIEW**
- Inlet zone
- Outlet zone
- 1/2 L of basin