

## STORM WATER FACILITIES

### GUIDELINES:

Several guidelines are encouraged.

Due to land constraints, the use of alternative methods of storm water treatment, such as bio-retention techniques, are encouraged in lieu of storm water ponds.

Developers may consider sharing common storm water facilities.

To control and reduce storm water runoff, as much natural vegetation as possible should be maintained on site.

Storm water ponds can be located at the side of a primary structure and will only be permitted if the pond is a true wet pond, and approved by the Town Council with any conditions deemed appropriate.



Bio- Retention Area

### TOWN OF MILLVILLE MISSION STATEMENT

“To ensure a sufficiently high quality of life for current and future residents; grow in a manner consistent with Town values; protect the environmental quality of resources located within Millville and in the surrounding area; provide for and protect open space areas within the community; and target development in areas where services can be provided at the least cost and in the shortest time possible”

### REFERENCES OF INTEREST

**DNREC Sediment and Storm Water Program:** A comprehensive control approach. <http://www.swc.dnrec.delaware.gov/Pages/SedimentStormwater.aspx>

**Sussex Conservation District:** Many of DNREC's programs are delegated to SCD. Millville coordinates with SCD. [http://www.sussexconservation.org/sed\\_sw.htm](http://www.sussexconservation.org/sed_sw.htm)

**Center for Watershed Protection:** Provides research, field experience and training, and publications. <http://www.cwp.org/our-work/services.html>

**Delaware Non Point Education for Municipal Officials (NEMO):** A coalition of organizations. For maps, publications and link to "Protecting Water Quality with Smart Growth Strategies and Natural Storm Water Management in Sussex County, Delaware" <http://nemo.udel.edu/stormresources.aspx>

## TOWN OF MILLVILLE DELAWARE

# Stormwater Management Guidelines



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## DEVELOPMENT OF DESIGN STANDARDS & GUIDELINE:

The Town of Millville has adopted a comprehensive set of **Development Design Standards and Guidelines\*** applicable to all new development and redevelopment along the Atlantic Avenue and Roxana Road corridors. These standards and guidelines represent supplemental provisions to the Town of Millville Code.

The **Development Design Standards and Guidelines** is divided into nine separate sections. Each section contains both “standards” and “guidelines” designed to promote orderly community growth. Standards in the document use the word “shall” whereas guidelines use the word “should.” While developers need show the Town how each standard and guideline was addressed, guidelines may be applied with greater flexibility.

## PURPOSE OF THIS BROCHURE:

This brochure provides a summary overview of those standards and guidelines relevant to storm water management. For a full explanation of the standards and guidelines, refer to the overall document at: <http://www.millville.delaware.gov>

## WITHIN PARKING LOTS:

Subsection 5. G of the Standards and Guidelines addresses Storm Water within Parking Areas. The intent is to create functional, attractive storm water management systems that reduce runoff, facilitate infiltration, and add color to the landscaping. This section is composed entirely of four guidelines, which can be used singly or in combination.

\* Effective April 12, 2011

## SWALES AND PLANTERS:

Five options are identified including: perimeter swales running alongside the parking area, median planters and swales, planters and rain gardens where limited space is available, creating parking islands from underused parking spaces, and using angled parking.



## PERVIOUS PAVERS:

In parking lots of less than 10 spaces, alternative paving, such as pervious pavers, clam shells, gravel, or alternative materials may be used.

## CURB EXTENSIONS:

Curb extensions can be used where some street parking can be sacrificed: Also can be used for traffic calming mid-block.



## INFILTRATION GARDENS:

A good option for unused space is Infiltration Gardens which can be used in parking lots of various sizes.

## SECTION 7:

Section 7 of Millville’s Design Standards Manual addresses storm water facilities. The intent is to provide adequate storm water management while providing an infrastructure that is well integrated with the natural environment and Town’s landscape. This section includes standards and guidelines for ponds.

## STANDARDS:

Storm Water ponds should:

- control and reduce runoff, designed to exceed minimum requirements established by Sussex Conservation District (SCD);
- be integrated into their surroundings using landscaping;
- be treated and designed as site amenities, provide adequate aerations using devices as aerators or fountains;
- maintain as much natural vegetation as possible;
- be landscaped with plants recommended by the SCD;
- provide at least a 25 foot setback distance from the top of the outer slope to any property line and/or ultimate right-of-way;
- Offer a 20 ft. maintenance easement around the facility.