

*The City of Lewes*



**City of Lewes  
Best Management Practices (BMP's)  
Design Standards**

**DRAFT**

September 30, 2020

Background: This guide is to provide guidance when BMP's are installed in the City. Intent and Utilization as defined by the Sussex Conservation District (SCD) and engineered specs. Prepared by and engineer to be reviewed by an engineer.

- bioretention
  - ex. rain garden, tree box filters, streetscape bioretention, large bioretention, raised planter box
  - Rain gardens and raised planter box are encouraged for single family lots. The other examples are encouraged for larger scale projects.
    - Raised planter box shall have pervious surface beneath the box and shall be sized 1:1 offset a percentage of the impervious surface proposed.
    - Rain gardens shall be planted with native non-invasive species.
    - Raised to sustain flooding.
- Permeable pavement
  - ex. permeable concrete pavers, grid pavement systems, pervious concrete, porous asphalt
    - For exposed driveway, patio, walkways, etc. that are open to the sky and not under roof shadow.
    - Shall be an engineered product.
    - Gravel, clamshell, etc. use shall be engineered.
    - Pavers to be installed shall be designed for driveway or roadway installation with porosity between pavers to capture (at a minimum) the rainfall that falls directly onto it. Further, it should have a minimum of 6" thick aggregate base for storage with enough storage to receive 3.2" of rainfall from the impervious area draining to the pavers, including the paver area.
- Rooftop disconnect with rain barrel or cisterns; discharge to a raingarden or to a preserved open space area
- Rainwater harvesting
  - ex. rain barrel or cisterns
  - Minimum of 2 barrels shall be installed. Minimum of 1:1 offset or offset for rain barrel or cistern.
  - Minimum size of barrel or cistern shall be 50-55 gal drum.

- Conservation landscaping;
  - Minimum area shall be 1:1 for every sf planted, up to 10% offset for the overall site.
  - The conservation landscaping area shall be exempt from grass height.
- Bioswale or vegetated swale
  - To be located along the road.
  - Not intended for sites with flat or very steep slopes or with poorly drained soils.
  - Not intended for single family lots. Intended for larger residential developments and commercial development.
- Infiltration
  - (ex. infiltration trench or basin)
    - This is used for larger scale development (residential or commercial uses)
    - 1:1 offset for SF required.
- Green roof
- Filtration
  - (ex. surface sand filter, underground sand filter, organic, non-structural filter, perimeter sand filter).
    - These are encouraged for large scale residential developments and commercial sites. They are not intended for single family lots.