



TOWN OF MIDDLETOWN

Stormwater Management Facility As-Built

19 West Green Street Middletown,
DE 19720
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STORMWATER MANAGEMENT FACILITY AS-BUILT INFORMATION

Project Name:

Date Submitted:

1.0 Minimum Submission Information

- 1.1 ☐ \$250 review fee per BMP, payable to the Town of Middletown
- 1.2 ☐ One (1) paper copy of bound as-built package and electronic file consisting of:
(all originals, signed and sealed, and dated)
 - 1.2.1 ☐ Stormwater Management Facility As-Built Information (Form)
 - 1.2.2 ☐ All applicable individual Stormwater Construction Checklists (Form)
 - 1.2.3 ☐ Daily CCR reports throughout the construction and stabilization of
the facility
 - 1.2.4 ☐ Plans
 - 1.2.5 ☐ Narrative Report consisting of the following items:
 - 1.2.5.1 ☐ Identification of any discrepancies from the regulations
and/or approved plans and any design changes from the original
design
 - 1.2.5.2 ☐ Identification of any installation issues
 - 1.2.5.3 ☐ Revised volume and routing computations along with an
evaluation of the facility, if applicable. (If necessary modifications
to the facility or outlet structure may be required)
 - 1.2.6 ☐ Certification from a Delaware RLA of landscape plantings within the
facility, if applicable
 - 1.2.7 ☐ Outfall Data Sheet(s)
 - 1.2.8 ☐ Copy of the Post Development Drainage Area Plan submitted with the
approved design in the electronic form of a CAD file with the .DWG
extension. *If the drainage area has changed, provide a revised drainage
area plan and file.

2.0 Minimum Required Plan Information

- 2.1 _____ 24" x 36" Sheet
- 2.2 _____ Engineering firm and address, phone number and fax number
- 2.3 _____ Record subdivision name, Instrument number, and Town project number.
- 2.4 _____ Name, address, phone number and fax number of maintenance corporation representative or owner
- 2.5 _____ Hundred, County, State
- 2.6 _____ Scale (must match design plan)
- 2.7 _____ Date of Survey
- 2.8 _____ Signature, seal and date of P.E. or P.L.S.
- 2.9 _____ Certification as prescribed below:

I, the undersigned, hereby certify that I am a Professional Engineer / Land Surveyor registered in the State of Delaware. To the best of my knowledge and belief, I certify that the stormwater management facility, as shown on the Stormwater Management Facility As-Built Plan prepared by _____ and dated _____, is in general compliance with the latest approved Sediment and Stormwater Plan.

Signature and Seal of Professional

Date

- 2.10 _____ Adjoining roads with names
- 2.11 _____ Property lines
- 2.12 _____ Easements
- 2.13 _____ Maintenance access
- 2.14 _____ Sediment disposal area per Record Plan
- 2.15 _____ Contours at 1-2 foot intervals based on design plan datum
- 2.16 _____ Type, size, length of pipes
- 2.17 _____ Rock outlet protection with pipe diameter, length, width, depth and size of rock
- 2.18 _____ Location plan (1"=800 scale)
- 2.19 _____ North arrow

2.20 _____ Facility Data as prescribed below (required for each facility)

Facility Type	
Impervious Cover (ac.)	
DE State Plane Coordinates	N: W:
GPS Coordinates	Latitude: N Longitude: W
Drainage Area to Facility (ac.)*	

* If there are BMP's in a series, start with the most upstream BMP and assign the appropriate drainage area to it; proceed downstream adding only the incremental increase in drainage area at each BMP.

3.0 The as-built drawing shall include a complete as-built survey of **all** design elevations of the facility in plan view and, at a minimum, the following:

Cross-Sections and Details

- 3.1 _____ Through each pipe discharge into the basin (include forebays)
- 3.2 _____ Through outfall structure
- 3.3 _____ Through principal spillway including outfall treatment such as stilling basins or riprap channels.
- 3.4 _____ Through the emergency spillway
- 3.5 _____ Two (2) cross sections of each bio-retention, underground detention, sand filter, or infiltration facility
- 3.5 _____ Design storm water elevations; revised storm elevations if re-routed
- 3.6 _____ Type(s), size(s), length(s), and slope(s) of pipes
- 3.7 _____ Weir(s) opening size; description of trash rack
- 3.8 _____ Orifice opening size; description of trash rack
- 3.9 _____ Outlet structure type, material and applicable dimensions (see item 4). The cross-sections should include all relevant existing and design storm water elevations.
- 3.10 _____ Invert elevations of all pipes
- 3.11 _____ Top elevations of outlet structures and risers
- 3.12 _____ Type of grate and trash rack with manufacturer's information for each orifice
- 3.13 _____ Outlet protection length, width, depth, type, and size of rock

3.14 _____ Embankment

3.14.1 _____ Height (existing grade and top of embankment as-built)

3.14.2 _____ Top width

3.14.3 _____ Side slopes (horizontal: vertical ratio)

3.14.4 _____ Cutoff trench, if applicable per design

3.14.5 _____ Anti-seep collar(s)

3.15 _____ Emergency spillway

3.15.1 _____ Width and side slopes

3.15.2 _____ Crest elevation

3.15.3 _____ Length

3.15.4 _____ Top of berm elevation

3.15.5 _____ Type stabilization methods

3.16 _____ Bio-retention

3.16.1 _____ Elevation of top of mulch, top of media, top of stone, bottom of stone, invert of the under drain

4.0 _____ Provide a detailed as-built survey of the outfall structure, including all relevant elevations and views.

5.0 _____ The plan shall include the maintenance specifications and schedule for the facility.

6.0 _____ Provide details of the condition and adequacy of the vegetative stabilization of the facility. (Photos required)

CERTIFICATION OF ENGINEER / LAND SURVEYOR

I, the undersigned, hereby certify that I am a Professional Engineer / Land Surveyor registered in the State of Delaware and it is my opinion that, to the best of my knowledge, each element of this checklist was considered and addressed in accordance with all applicable regulations, codes, standards, guidelines and policies.

Signature and Seal of Professional

Date

Submission of this Checklist does not relieve the Applicant from the responsibility to comply with all applicable regulations, codes, standards, guidelines and policies. The Town of Middletown reserves the right to revise this checklist periodically as the need arises.