



CONSTRUCTION AS-BUILT SUBMITTAL CHECKLIST

The Sussex Conservation District requires an As-built of the Stormwater Management facility within 60 days of completion.

Submittal Requirements:

- As-built survey plan in accordance with the items of this Checklist
- Supporting calculations in accordance with the items of this Checklist
- A copy of the completed Construction As-Built Survey Submittal Checklist
- Pond Construction Checklist completed by the CCR during construction of the basin, if applicable
- Geotechnical engineer's report for core trench/cutoff trench construction, if applicable

As-Built Requirements:

- Plans must be submitted on minimum 24" x 36" sheets
- Provide a location map on the plan
- Provide a north arrow on the plan

The title block must include:

- Project name indicating "as-built" in the plan title
- Name, address, telephone and fax numbers of the individual preparing the plan
- Scale of plan (maximum plan scale accepted will be 1" = 50')
- Date of the survey
- Hundred, County, and State
- Signature and seal of Delaware Registered Professional Engineer or Professional Land Surveyor
- Name, address, telephone and fax numbers of the party responsible for maintenance of the stormwater facility (i.e. owner or maintenance corporation representative)

Delineate and properly label the following (as-applicable):

- Roads adjoining the stormwater facility
- Property lines adjacent to the stormwater facility
- Easements (i.e. drainage, utility, access, etc.) adjacent to the stormwater facility
- Maintenance access to and around the stormwater facility
- Maintenance set aside area location and dimensions

Provide the following as it relates to the stormwater facility's storage volume:

- As-built contours of the stormwater management facility including forebays, micropools, and elevations below permanent pool at 1 or 2-foot intervals based on the datum of the approved plan (1-foot contours will generally be expected for projects located in Kent and Sussex Counties). For sites with greater elevation differences (+20' across the site) such as is often found in New Castle County, 2-foot contours will be accepted)
- Pond bottom elevations on a 50-foot grid with high and low points noted
- Lowest top of bank elevation at fill for embankment/combination pond or lowest top of bank elevation for excavated pond. *The acceptable top of bank elevation may be no lower than the design elevation for top of bank*
- Actual cross-section showing elevations, inside slopes, benching, top width and backslope, as applicable (to scale)
- Elevation of permanent pool
- Calculations of the volume of the pond as constructed with incremental storage and cumulative storage volumes in cubic feet for each one-foot elevation contour. ****The allowable variance from the design volume of the basin is 10%*
- Provide the following information related to the inlet and outlet structures within the stormwater facility. ****The allowable variance for invert elevations on any structure is 0.1ft.*
- Diameter and material of all inlet and outlet pipes
- Invert elevations of all inlet and outlet pipes
- Dimensions (length, width, depth, d50) for all areas of rock outlet protection
- Dimensions and material of outfall structures
- Profile through principal spillway showing inverts and dimensions of all pipes, weirs, orifices, risers and other appurtenances, as applicable (to scale)
- Cross-section of emergency spillway (to scale)
- Profile through emergency spillway (to scale)

****When the allowable variances are exceeded for either stormwater facility volume or outlet structure invert elevations, supplemental calculations must be submitted to determine if the stormwater facility, as constructed, meets the design requirements. Submit the following:*

- Calculations of outflow from the stormwater management facility for all design storms. Routing computations must be based on the as-built volumes and elevations for the facility