

Stormwater (SW) Management Facilities As-Built Survey Checklist

Revised May 30, 2018

The SW As-Built must be a post-construction survey, performed AFTER all SW components are installed and functioning properly as per the approved design, and the surrounding areas are stabilized. All construction on the site must be completed prior to approval of the SW as-built. Each system is unique, so it is not possible to specifically list every detail on this checklist. The information on the SW As-Built must be directly comparable with the information shown on the approved plan in order to show conformance. We will be reviewing for proper locations, sizes, elevations, volumes, details, etc. Generally, elevations within 0.2' of those shown on the approved plan are acceptable unless the deviations cause an unacceptable slope condition or other concern. If deviations are found, additional information or calculations may be required to prove the system can function adequately as constructed. Revised design or calculations must be submitted and reviewed as a post approval plan revision (aka field change).

The following is a list of the elements commonly required to be shown, depending on the design:

1. All property lines and easements, labeled and dimensioned
2. Benchmark location, description, elevation and vertical datum (NAVD88)
3. Location map
4. The entire on-site stormwater facilities, and newly constructed off-site stormwater facilities, including both private and public components:
 - A. Pipes, structures, swales
 - B. Quantity and quality BMPs
 - C. Required stormwater related vegetation (identify vegetated areas – do not list individual plants)
 - D. Pipe materials, sizes, slopes, rim and invert elevations
 - E. Details of weir, orifice, outlet control devices, etc.
 - F. Details of proprietary or manufactured BMPs
5. Letter from manufacturer of proprietary BMP acknowledging correct design and installation

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- 6. BMP cross-sections with labels and numerical data including:
 - A. Side slopes, benches, revetments
 - B. Water quantity and water quality volumes – both required and constructed
 - C. Water surface elevations shown from approved design for the 1, 2, 10, and 100-year storm events
 - D. Seasonal High Groundwater
 - E. As-built elevations of each layer in the system (top and bottom of stone, filter media, pavers, etc.)
 - F. As-built elevations at the same locations shown on the approved cross sections (top of bank, toe of slope, Normal Water Surface Elevation (NWE), etc.)
- 7. The following certification must be placed on the face of the as-built, and signed and sealed by the responsible professional:

Stormwater Management Facilities Certification

Pursuant to 9VAC25-870-55, I hereby certify that to the best of my knowledge and belief the stormwater management facilities shown on these record drawings have been constructed in accordance with the approved plans and specifications.

 Name

 Signature

 Virginia License

 Date

"Certify means to state or declare a professional opinion based on sufficient and appropriate onsite inspections, material tests, as-built survey data, and information provided by other professionals and the contractor, conducted during or after construction."