This is an internal document generated to facilitate consistent ASB plan reviews. Additional requirements may be necessary based on site-specific conditions.

<u>CHARLOTTE STORM WATER SERVICES</u>
LAND DEVELOPMENT REVIEW
<b>Bioretention (Rain Garden) As-Built Plan Checklist</b> <sup>2021</sup>

Phone No
Phone No.

## GENERAL SUBMITTAL REQUIREMENTS

*Note: Should constructed storage volume, orifices or weirs deviate from proposed, a new detention/BMP analysis may be required from the engineer.* 

A sealed as-built plan will be provided by the project design professional for all s BMP facilities. If applicable, include the following note with PE seal certifying have been constructed in accordance with the approved design plans: <i>The as-to measures, controls, and devices are in compliance with the approved storm we</i>	g that the BMP(s) built storm water
plans and designs and with the requirements of the Post-Construction Controls Completed Inspection Checklist	Ordinance.
https://mecklenburgcounty.exavault.com/p/waterquality/PCO%20Forms/BMP	Maintenance_Ins
Photo documentation of the completed BMP with each item in the Inspection Cl visible	hecklist clearly
All associated storm water easements will be shown on the as-built plat which car and has been captured in a public drainage easement which agrees with the same on the approved plat, as well as all required Post Construction Controls Ea	easements shown
regulations Title block with site name, location, vicinity map and a description of Phase and Ma	p being reviewed.
Subdivision as-built plans require the associated plats to be submitted with as-built (All drainage systems within full plat must have completed as-built information). A supplemental digital file is needed for City records and will be uploaded to Act	•
format shown with the layer configurations described in Section 11.4 of the PCC Manual.	
All as-built plans will be based on NAD 83/1986 and tied to the North Car Coordinates System (NC GRID) with all BMPs shown and located by x and y c All vertical data to be referenced to NAVD 88.	
All storm system structures identified and labeled the same as the approved plan elevations are to include an invert elevation, a top of grate (at grade) elevation a elevations used for storm water intake purposes. All data is to be verified to the	nd any opening
hundredth of a foot (0.01). All storm system pipes identified and labeled the same as the approved plan wit downstream invert elevations, the total length of the pipe run from end to end, w calculated slope. All data is to be verified to the closest hundredth of a foot (0.0	vith the
Name, location, size and elevation of the BMP actually constructed (includes co the BMP easement at no greater than two foot intervals). As-built BMP Inset Table	
	ations of sizes

## **BIORETENTION (RAIN GARDEN) REQUIREMENTS**

Labeled contours (all contours must close and not exceed 2 foot intervals)Provide surface areas for each contour on as-built planProvide sufficient spot elevations for top of berm to determine the lowest point of containmentProvide a detail of outlet structures with all dimensions (including invert and top of structure)Label all invert elevations and dimensions for orifices and weirsProvide outlet pipe inverts, size, length, and slopeProvide sufficient media depth measurements to verify approved depth has been achievedLocate and label underdrain cleanouts with inverts

## **MAINTENANCE AGREEMENT**

\_\_\_\_\_ The maintenance agreement will be recorded with the initial plat of each phase for that BMP within the drainage area of that initial plat.

Note: Any new or revised storm drainage systems or easements shown on as-built plans may require a subdivision plan revision along with engineering calculations and drainage area maps.

December 2021