



## CITY OF SUGAR HILL AS-BUILT HYDROLOGY CHECKLIST FOR SITE DEVELOPMENT PLANS

Review #1: _____	Review #2: _____	Review #3: _____
Review Date: _____	Review Date: _____	Review Date: _____
Reviewer: _____	Reviewer: _____	Reviewer: _____

**PROJECT NAME:** \_\_\_\_\_

**PROJECT LOCATION:** \_\_\_\_\_

**TAX PARCEL #(s):** \_\_\_\_\_

OK  
  Revision Required  
  N/A Not Applicable  
  N/R Not Required  
  ? Additional Information Required

Reviews				Corrected on
3rd	2nd	1st		Page #
_____	_____	_____	1 Contours at 2-foot elevations and pertinent spot elevations.	
_____	_____	_____	2 Bottom of pond elevation in front of outlet device and opposite end of pond to verify positive drainage	
_____	_____	_____	3 Top of wall or dam elevation to verify freeboard.	
_____	_____	_____	4 Width of dam at top of dam	
_____	_____	_____	Forebay equaling 10% of the water quality volume must be provided for all pond inlets. Show the required water	
_____	_____	_____	5 quality volume and detention volume for each outlet control structure.	
_____	_____	_____	6 Maximum ponding elevation and limits of ponding.	
_____	_____	_____	7 Location of pond in respect to property lines, road R/O/W, and other easements.	
_____	_____	_____	8 Registered Land Surveyor seal and signature certifying pond location and topography.	
_____	_____	_____	9 Detail of outlet device showing pertinent elevations and dimensions.	
_____	_____	_____	CP offices 15" or less require a trash rack. One of the following is acceptable: the elbow style trash rack (schedule 40	
_____	_____	_____	10 grid opening of d/2 and a surface area of at least 10 square feet.	
_____	_____	_____	WQ and CP orifice sizes shall be in place and specified with detail of filtration system such as the double "Y" water	
_____	_____	_____	quality filtration system. (Note: all end caps inside the outlet control structure should be threaded end caps with	
_____	_____	_____	11 removable PVC threaded plug for cleaning purposes.)	
_____	_____	_____	12 Professional engineer's seal and signature, certifying pond routing and stormwater report.	
_____	_____	_____	13 Date of study.	
Use a format like the tables below to organize the data.				

	Pond Identifier	Storm Frequency	Allowable release rates as indicated in original design (cfs)	Actual release rates based on as-built survey of detention pond (cfs)	Pond elevation/Dam elevation (ft)
14	A	1	15	14	1047.0 / 1053.0
		2			
		5			
		10			
		25			
		50			
		100			

	Pond Identifier	Direct runoff from 1-year storm (C.F.)	H - Height of CPV above centroid from as-built (Ft.)	H - Height of CPV above centroid from original report (Ft.)	Routed Channel Protection Volume of pond from as-built (c.f.)	Diameter of CPV orifice from as-built (inches)	Diameter of CPV orifice from original report (inches)
15	A						

Pond Identifier	Required Water Quality volume of pond (if applicable) (c.f.)	H - Height of WQV above centroid from as-built (Ft.)	H - Height of WQV above centroid from original report (Ft.)	Actual Water Quality volume of pond (c.f.)	Diameter of WQV orifice from as-built (inches)	Diameter of WQV orifice from original report (inches)
16	A					

Pond Identifier	50% Water Quality Elevation	100% Water Quality Elevation	Routed 1-year Elevation	Invert Elevation of 2-year outlet
17	A			

- 18 Water Quality volume provided is less than the required volume. Pond must be enlarged.
- 19 Channel Protection volume provided is less than the require volume. Pond must be enlarged. Two-year weir elevation must be equal to or higher than one-year routed elevation.
- 20 As-built Water Quality orifice not same as original study. Provide calculations to justify new size.
- 21 As-built Water Quality "H" not same as original study. Provide calculations to justify new "H".
- 22 As-built Channel Protection orifice not same as original study. Provide calculations to justify new size.
- 23 As-built Channel Protection "H" not same as original study. Provide calculations to justify new "H".
- 24 Freeboard is less than that required for embankments. Provide additional freeboard (1.5' for earthen and 0.5' for non-earthen).
- 25 Post-developed storm flows must not exceed pre-developed flows for 2,5,10,25-year storms.
- 26 Provide documentation demonstrating the required testing for the proposed stormwater BMP.
- 27 Provide certified record survey and applicable as-built report for all water quality facilities.
- 28 Provide ALL required record drawings per Development Regulations 11.5.3.
- 26 Provide ALL required record drawings per Development Regulations 11.5.3.

**Other Comments**

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PRIOR TO RELEASING COMMENTS FOR ALL SECOND REVIEWS, THE APPLICANT AND/OR OWNER MUST SCHEDULE AN APPOINTMENT WITH THE PLANNING DIRECTOR, PLANNER, AND PLANNING TECHNICIAN.