

Project Name:

Name of Design professional _

Address:

DeKalb County Planning & Sustainability Department

178 Sams Street, Decatur, GA 30030

Michael L. Thurmond Chief Executive Officer

Cedric Hudson Interim Director

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LAND DEVELOPMENT – STORMWATER MANAGEMENT REVIEW CHECKLIST (Land Development Section's)

Date:

Parcel #:

This checklist shall be submitted with your documents/drawings. Answers shall be provided to all items as "no" or "yes"; and if "no", you must explain why the item in question is not applicable.

Signature____

Plans must adhere to guidelines in t y Government Ordinances: Chapter	he Georgia Stormwater Management Manu 14, 22.5 and 27	ıal (GSMM) Volume I	I,II and III, as well as I
	HOWN ON THE PLANS AND MWATER MGT REPORT		TEM ESSED?	IF NO, EXPLAIN
	n the Land Development - Site Plan	NO	YES	
Review checklist				
2. Development name on the co v	ver of the report	NO	YES	
3. Engineer's seal, signature, add	ress and telephone number on the cover	NO	YES	
of the report	of the report			
4. Developer's name, address, an	d telephone number on the cover of the	NO	YES	
report				
5. Date on the cover of the repor	t vicinity map in the report	NO	YES	
6. Vicinity map in the report		NO	YES	
7. Add revision date(s) on the co	ver of the report	NO	YES	



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8.	Provide statement	-	-		water dr	ainage	NO	YES	
	ownership in the h	ydrology/s	tormwater	mgt report					
9.	Provide a recorded	Stormwat	er Detentio	on Facility l	Inspectio	n and	NO	YES	
	Maintenance Agree	ement whi	ch must ir	nclude the r	required	exhibits as			
	well as the post con	nstruction	inspection	, operation	and mai	ntenance			
	plans								
10.	A stream buffer var	iance is red	quired for e	encroachme	ent into t	he stream	NO	YES	
	buffers								
11.	Contact the Army (Corps of Er	gineers (A	CoE) for pe	rmit		NO	YES	
	determination/app	roval. ACo	E approval	is required	prior to s	stormwater			
	plan approval if it a	pplies to t	he propose	d scope of v	vork.				
12.	Provide flood study	per the Fl	ood Plain N	Managemen	t Ordina	nce and in	NO	YES	
	accordance with FE	EMA appro	ved metho	dology if it a	applies.				
IF a LC	MR or CLOMR, etc.	is needed.	the Applic	ant must se	nd docui	nents to			
	w/copy sent along w		· · · · · ·						
13.	Does your submitta	al/hydrolog	gy report ac	ddress the fo	ollowing:	runoff	NO	YES	
	reduction volume (RRV), chai	nnel protec	tion volum	e, over-ba	ank flood			
	protection, extreme	e flood pro	tection, and	d ten-perce	nt downs	stream		_	
	analysis?								
14.	Provide RRV, WQV	and CPV	calculation	s. If RRV is	not inclu	ded provide	NO	YES	
	detailed technical j	ustification	n based on	soil charact	eristics a	nd or site			
	topography related	to best pra	actices for 1	runoff reduc	ction volu	ıme			
15.	Provide executive s	ummary o	f the report	s findings t	to includ	e a table	NO	YES	
	similar to:	,	1	8					
Basi	n Drainage Area Return	Precipitation	Pre-	Post-	Pondina	Storage		_	
	Frequency Storm (yrs)	Value for 24 hour Event	development Flow (cfs)	development Flow (cfs)	Elevation (ft MSL)	(cubic feet)			
	1	(inches)	1						
	2								
	5 10								
	25								
	50 100								
10%1	D.S. 100								
16.	DeKalb County req	uires post	developme	nt release fl	low rates	not to	NO	YES	
	exceed pre-develop	_	_						



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45 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NO	TITIC	
 Include a narrative paragraph/summary in the report that includes a description of existing site, soils, slopes, vegetative cover, and proposed 	NO □	YES □	
improvements, methodologies and procedures, calculations, summary of			
results and a conclusion detailing the findings of the drainage investigation.			
18. Discuss both existing and proposed drainage patterns, land use, land	NO	YES	
cover, land slopes, hydrologic soil group, segmented times of			
concentration, and the method for estimating storm water runoff (S.C.S.). Incorporate Green Infrastructure/Low Impact Development			
practices where practical.			
19. County codes require that the curve number for wooded condition be	NO	YES	
used for ALL onsite basin. No weighted curve number needs to be calculated for the pre-development basin(s), simply use the CN for			
wooded condition.			
20. For subdivisions, the maximum lot coverage required by the zoning	NO	YES	
codes must be used for each proposed lot, as the total impervious area for the hydrology study.			
If the maximum lot coverage is not used, then the square footage of			
proposed impervious accounted for each lot must be indicated and the final plat must then specify that maximum impervious surfaces to be			
created on the lot(s). The building permit drawings for each lot must			
then reflect the same value(s).			
21. State the existing and proposed impervious surface by acre and percent of site for each basin.	NO	YES	
 Provide a breakdown of proposed impervious surface by roofs, roads, sidewalks, access drives, driveways, etc. 	NO	YES	
•			
23. Delineate all drainage areas/basins to include offsite drainage and	NO	YES	
bypass.			
24. Detailed pre and post developed drainage area maps are required.	NO	YES	
Drainage areas/basins must be clearly delineated (use color and hatch if necessary), and must show the CN values, acreage, study point, and TC			
flow path for each drainage area/basin. Each drainage area/basin must			
be labelled as onsite, offsite, or bypass as applicable.			



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25.	Explain the chosen CN values used and provide detail calculations for	NO	YES	
	the weighted CN values for each basin			
26.	Provide a list or table of the rainfall values used.	NO	YES	
	Use 3.36 inch as the value for the one year (1-			
	year) precipitation depth when using the Annual Maximum time series,			
	or use the Partial Duration time series			
	http://hdsc.nws.noaa.gov/hdsc/pfds/pfds map cont.html?bkmrk=ga:			
	NOAA ATLAS 14 POINT PRECIPITATION FREQUENCY ESTIMATES.			
27.	The SCS method and other approved methodologies are required for	NO	YES	
	detention analysis.			
20	A 10% downstream analysis is required. Provide basin drainage showing	NO	YES	
20.	the drainage area/basin clearly delineated (use color and hatch if	NO		
	necessary), and must show the CN values, acreage, study point, and TC			
	flow path for each drainage area/basin.			
	·			
	Provide peak flow analysis results with and without detention to the			
	labelled study point.			
29.	The 10% downstream analysis must specifically prove and state that no	NO	YES	
	structures (businesses, homes, culverts, streets, etc.) between the			
	analysis points will be adversely impacted by the increase in site runoff	_	_	
	based on hydrograph timings to the 10% downstream study point.			
30.	Provide fore-bay calculations (o. l"/acre of impervious area)	NO	YES	
24	D I WOV I CDV IC I I I I I	NO		
31.	Provide WQV and/or CPV orifice sizing calculations for the 24-hour drawdown	NO	YES	
	drawdowii			
32.	Round orifice size up or down to the next whole number (e.g. computed	NO	YES	
	= 2.6", round to 3") for WQv and CPv orifices sizing			
22				
33.	Provide the detailed calculations for CPv (required and provided), RRv	NO	YES	
	(required and provided), Orifice sizing, Green Infrastructure/Low Impact Development.			
	Development.			
34.	Provide stage-storage report, pond report, hydrographs, and any other	NO	YES	
	outputs from the model, showing input values/parameters used,			
	assumption made, etc.			
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	The volume required by the hydrology shall reconcile with the grad on your drawings	ing				
35.	Provide 50% of net WQV as dead pool storage for Wet Extended		NO	YES		
	Detention pond.					
36.	Micro pool pond required (for less than 10 acre drainage areas).	NO	YES		 	
	Show 25-30% of net WQV as dead pool storage.					
37.	Show that the 100-year storm, including offsite pass-through, is	NO	YES			
	safely passed around or through the pond and through the emergency overflow weir. Otherwise, show how the offsite will be managed.					
38.	Disturbed bypass areas greater than 10% of the drainage basin	NO	YES		 	
	require water quality treatment. (however, the County may require bypass less than 10% to address water quality)					
39.	Extended dry detention may be used to fully meet CPV, Qp25 and	NO	YES		 	
	Qf (The 100-year, 24-hour storm event) requirements only					
40.	Extended dry detention must be used in conjunction with other	NO	YES		 	
	onsite BMPs to meet the 80% TSS water quality requirements of the GSMM					
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41.	Include Outlet Control Structure (OCS) and pond cross section	NO	YES	
	details in BOTH the hydrology report and in the plan set.			
a)	The OCS detail must show the following:			
b)	 Show OCS plan view with dimensions Show OCS front view, with orifices diameter and weirs length (information shall be reconciled with hydrology report) Show bottom and top elevation of OCS Show trash rack (Trash rack must have 10 times the surface area of the orifice it protects. Flat is not allowed for public single-family residential developments) Show raised lid with ring and cover The Pond x-section details must show: The top of dam and bottom of pond elevations 			
	 The 100-yr volume and elevation 			
	 The RRv/WQv and Water Surface Elevation (WSE) 			
	 The forebay volume, its top of dam elevation, spillway and bottom elevation 			
	 Micropool bottom elevation, volume and WSE for 			
	volume provided			
	 The x-section must show both ends/edges of the ponds 			
	• Show a safety bench if the pond is deeper than 4'or			
	required slopes of greater than 3:1. Show and dimension the aquatic bench			
	standard 10' embankment berm width and minimum			
	slopes of 3:1 per GSMM			
42.	If CPV is waived, then the 2 through 25 year attenuation is	NO	YES	
	required as well as safely passing the 100 year storm			
43.	Provide a wetland seeding schedule for extended detention wet	NO	YES	
	pond BOTH the hydrology report and in the plan set.			
44.	Add note to plan set/on grading sheet: "No woody vegetation is	NO	YES	
	allowed within 15' of the downstream toe of earthen			
	embankment". (i.e. stumps, etc)			
45.	Provide construction detail for emergency spillway in	NO	YES	
		l	l	



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46. For earthen pond embankments, use impervious cut-off trench with anti-seep collar to restrict piping of soils through embankment	NO	YES	
47. Add note to plan/on grading sheet: "The pond's maintenance under drain is intended to drain the pond for infrequent maintenance and inspection purposes. The gate valve must be closed immediately after construction of the pond. After construction is completed, it can only be opened upon authorization by the DeKalb County Land Development Department."	NO □	YES	
48. Provide pond under drain (drain pipe with 3" mm. gate valve located in OCS). Also, provide manufacturer and maintenance spec	NO	YES	
49. Show the forebay volume calculation (0.1" per impervious acre). Indicate and show volume provided	NO	YES	
50. If WQV and CPV requirements are met, the only additional requirements are flood control for the 25-year event and safe passage of the 100-year event.	NO	YES	
51. Show/indicate required micropool (25-30% of net WQV); indicate volume provided	NO	YES	
52. For redevelopment projects other than stormwater hotspots, if less than 40 % of the site is being disturbed only that portion of the property is required to meet the stormwater compliance regulations. The hydrology analysis will model the whole site, however only the area disturbed will be treated as wooded for the pre-developed conditions.	NO □	YES	