

**Stormwater Development Plan Review Checklist-
Projects >1acre and/or 5000sqft impervious**



Development Name:

Permit Applicant:

Developer's Engineering Firm:

Location:

Reviewed by:

Date:

A Administrative	Submitted	Approved	N/A
1 Development Application Form			
2 Common address & legal description			
3 Vicinity map			
4 Sizing & location of all SW pipes to be responsibility of design engineer			
5 Scale no less than 1"=50' (subdivisions) or 1"= 30' (all other site plans)			
6 Date, north arrow, match lines, sheet numbers			
7 Tax map, block and lot number			
8 Total project acreage			
9 Revisions to approved plans with completed revision blocks			
10 Seal and signature			
B Existing Conditions	Submitted	Approved	N/A
1 Topographic map of existing site conditions- 2' contours minimum			
2 Delineation of drainage basin boundaries			
3 Acreage, soil types and land cover for each sub-basin			
4 All surface water features, including wetlands, ponds, perennial and intermittent streams			
5 All existing stormwater conveyances and structural control facilities			
6 Direction of flow and exits from the site			
7 Boundary survey			
8 Municipality or publicly-owned land with 50' of property			
9 Street rights of way w/ name, number, widths			
10 Existing stormwater controls and conveyances			
11 Buildings and other structures			
C E&SC	Submitted	Approved	N/A
1 Grading plan			
2 Limits of clearing and grading			
3 Erosion and sedimentation control plan in accordance with chapter 42, environment, article III, erosion and sedimentation control, of the Code of Griffin, Georgia, or NPDES permit for construction activities			
4 A completed copy of the appropriate GSWCC Erosion, Sedimentation & Pollution Control Plan Checklist			
D Proposed Conditions	Submitted	Approved	N/A
1 Topographic map of developed site conditions with the post-development drainage basin boundaries indicated			
2 Total area of post-development impervious surfaces and other land cover areas for each subbasin affected by the project			
3 Location and boundaries of proposed natural feature protection and conservation areas			
<i>Stormwater management system</i>			
4 Map/drawing of the stormwater management facilities			

5	Locations of existing and proposed structural stormwater controls			
6	Design surface water elevations			
7	Storage volumes available from zero to maximum head			
8	Location of inlets and outlets			
9	Locations of bypass and discharge systems			
10	All orifice/restrictor sizes			
11	Cross section and profile drawings and design details for each of the structural stormwater controls in the system			
12	Drawings, elevations and hydraulic grade lines for all existing and proposed stormwater conveyance elements including stormwater drains, pipes, culverts, catch basins, channels, swales and areas of overland flow			
13	Where applicable, a narrative describing how the stormwater management system corresponds with any watershed protection plans and/or local greenspace protection plan.			
14	SW management facilities, including 10, 25, 100 year surface elevations, computations, and access & maintenance easements			
	Landscaping & open space plan			
15	Plan describing the woody and herbaceous vegetation that will be used within and adjacent to stormwater management facilities and practices			
16	Natural and greenspace areas and other landscaped features on the site plan			
17	Descriptions and standards for the methods, materials and vegetation that are to be used in the construction			
18	Contours no greater than 2'			
19	Permanent open spaces, including buffers, parks, and recreation areas			
20	Storm drainage system, including all required computations, sizes, pipe type, gradients, invert elevations, direction of flow, drainage divides and areas			
21	Lot layout			
22	Existing and proposed buildings			
	E Specifications	Submitted	Approved	N/A
1	SW pipes to be sloped to maintain minimum velocity of 3 fps for 2-year event			
2	25-year event to be used in sizing storm drains within ROW. Pipes crossing public streets shall be designed to pass 100-year event. All other storm sewer systems to be sized to convey the 50 year event.			
3	Storm sewers may not flow under pressure at design storm			
4	Hydraulic grade lines shall be delineated on all construction drawings.			
5	Storm sewers to be design using Manning's equation			
6	Storm sewers shall be 18" or greater			
7	No corrugated metal pipe			
8	No storm drains under accel/decel lanes			
9	Storm drainage to be collected in storm sewers at or near perimeter of property on the upstream end and piped to an existing storm drainage system.			
10	Max continuous length of pipe shall be 300' for pipes <42" diameter			
11	Exit velocity not to exceed 4 fps during 25 year event without the design to additional energy dissipaters (not including rip-rap)			
12	Max runoff velocity in vegetated swales to be 5.0 fps during 25-year event. Swales to be lined with stone, concrete, and/or approved matting for higher velocities.			
13	Inlets to be designed to GDOT standard 1033D and/or 1034D. Alternates subject to city approval.			
14	Catch basins shall be located outside intersection radii, unless special hardship.			
15	Catch basin spacing: 500' on grades to 7%, 400' on grades 7-10%, 250' on grades >10%			
16	Gutter spread to be 1/2 travel lane for 25-year event			
17	Outlet end of all storm drain pipes (except driveway pipes) to have flared end sections or concrete headwall.			

18	Drop inlets to be designed to GDOT Standard 1019A. Weir drop inlets shall be provided for landscaped areas. Grated drop inlets shall be provided in paved areas.			
19	J-boxes or manholes to be constructed to GDOT Standard 9031U or 1011A.			
20	Detention pond riser structures to be designed to GDOT standards.			
F Operations & Maintenance		Submitted	Approved	N/A
<i>Inspection & maintenance agreements</i>				
1	Complete signed and notarized Stormwater Facility Inspection & Maintenance Agreement submitted, to include:			
2	Legal description			
3	Certificate of Title			
4	Description of who will be responsible for ongoing maintenance of vegetation for the stormwater management facility and what practices will be employed to ensure that adequate vegetative cover is preserved			
5	Existing & proposed easements			
6	Drainage easements to be at least 20' along pipes and around detention ponds			
<i>Operations and maintenance plan</i>				
7	Plans identify the parts or components of a stormwater management facility or practice that need to be regularly or periodically inspected and maintained, and the equipment and skills or training necessary			
8	Inspection and maintenance schedule & maintenance tasks			
9	Identify the responsible parties for performing maintenance, access and safety issues			
G Floodplain		Submitted	Approved	N/A
1	100 year floodplain			
2	Floodplain study if necessary			
I Hydro Study		Submitted	Approved	N/A
<i>Existing conditions hydrologic analysis</i>				
1	Topographic map of existing site conditions			
2	Delineation of drainage basin boundaries			
3	Acreage, soil types and land cover for each sub-basin			
4	All surface water features, including perennial and intermittent streams			
5	All existing stormwater conveyances and structural control facilities			
6	Direction of flow and exits from the site			
7	Hydrologic analysis for stormwater runoff rates, volumes, and velocities			
8	Methodologies, assumptions, site parameters and supporting design calculations used in determining site hydrology			
<i>Post development hydrologic analysis</i>				
9	Topographic map of developed site conditions with the post-development drainage basin boundaries indicated			
10	Total area of post-development impervious surfaces and other land cover areas for each subbasin affected by the project			
11	Calculations for determining the runoff volumes that need to be addressed for each subbasin for the development project to meet the post-development stormwater management performance criteria in § 94-164			
12	Location and boundaries of proposed natural feature protection and conservation areas			
13	Documentation and calculations for any applicable site design credits that are being utilized			
14	Methodologies, assumptions, site parameters and supporting design calculations used in analyzing the existing conditions site hydrology			
15	If the land development activity on a redevelopment site constitutes more than 50 percent of the site area for the entire site, then the performance criteria in § 94-164 must be met for the stormwater runoff from the entire site			

