

Project Information and requirements for plan approval		REVIEWER USE:	
PAGE #		PROVIDED	yes/no
	Project Name:		
	Date on plans:		
	Date Plans Received:		
	Stormwater Reviewed by, Review Date & Status:		
	Total Acres/Disturbed Acres:		
	GPS LOCATION (decimal degrees)		
<b>COVER SHEET ITEMS AND PLAN SET REQUIREMENTS</b>			
	Signed & dated Professional Engineer's stamp (registered in the state of Georgia), also include address and telephone number.		
	Owner/Developer's name, address and telephone number.		
	Development Name, including phase if part of a larger development.		
	GDOT approvals and permits where applicable. These permits will be required prior to issuance of a land disturbance permit from the City of Newnan.		
	Army Corps Permits, notices, conditions and correspondences		
	24 Hour contact on cover sheet- 24 hour contact shown on Cover Sheet		
	Vicinity map showing the location of the project and surroundings within a 5 mile radius		
	Index of all sheets shown on the cover sheet.		
	Total Acres and Disturbed Acres on the cover sheet clearly displayed, must match erosion control sheet		
	Master detention with Hydrology Report/Stormwater Management Report referenced on cover sheet		
	Hydrology Report for Stormwater Management Plan if site is greater than 1 acre disturbed or greater than 5,000 sq. feet impervious area		
<b>STORM PLAN, PROFILES AND DETAILS</b>			
	Include the Drainage Easement Note. (included at end of checklist)		
	Show total acreage, total disturbed acreage, total drainage acreage (on site and off site) as total bypass acreage on drainage plans		
	Label all pipes and junctions boxes for cross referencing on profiles		
	Label all pipes with size, minimum pipe size is 18" (15" for private property)		
	show easements on all storm pipes existing and proposed (min. 10' past headwall or end of pipe) min 20' wide centered on pipe may be larger for deeper pipes		
	show pipe material type on plans and profiles (for pipes within the R/W, material selection and installation specs are per GDOT and the "blue book")		
	Show cross-sections and profile drawings for each structural stormwater control in the system, must include existing grade, proposed grade, and all utility conflicts		
	show the 25 year HGL without pressure on all pipes		
	show size, material, length, and slope for all existing and proposed storm drain pipes on the profile		
	include a pipe chart showing, minimum pipe slope of 0.5% or a minimum velocity of 2.5 ft/sec, whichever is greater., max pipe velocity of 15 feet/sec and manning's coefficient for each pipe		
	include the gutter spread of all inlets on public or internal road systems with at least one lane passable at max gutter spread		
	For all upstream pipes that are serving only yard areas add a junction box at the right of way line upstream from road catchbasin to delineate point of maintenance responsibilities.		
	label all invert elevations (in and out) and rim elevations, invert drop (min 0.1') and show concrete splash pads for larger drops on the profile		
	for all pipes 48" and larger show energy dissipating headwalls and or type 1 rip rap on the profile and plan sheet with details		
	for manholes deeper than 16 feet show safety ledge detail and indicate on the profile that the safety ledge is required, platforms are 8' to 10' apart		
	Include GDOT details for all that storm system components; Curb and Gutter, Flumes, Catch Basins, Drop inlets (1019A type E with hood), Yard inlets (1019A type B), Headwalls,		
	include all pipe installation details (bedding class, backfill methods, showing min 2' cover for RCP and 3' for all other. Include manufacturer's details for outside the r/w and GADOT for inside the r/w		
	For Stormwater Management Facilities (i.e. detention/ water quality ponds and structures, Green Infrastructures and/ or Low Impact Development structures, etc.) show a 20' access easement from public R/W to pond and a 10' maintenance easement around the structure/ pond's perimeter including all components.		
	show the 100 year elevation for all permanent ponds and 1 foot of free board between 100 yr elevation and the top of the dam		
	show outlet control structure details and cross sections and also include in the hydro the same details and cross sections labeling all storm event elevations on the structure.		
	Label and dimension flumes (detail if needed)		
	no trees, shrubs or woody vegetation to be planted on a pond embankment or within 15 feet of toe of the slope of any dam		
	no trees or shrubs with long tap roots within the vicinity of dam or underground drainage facility		
	no trees or shrubs within 25 feet of a perforated drainage pipe		
	landscaping must be placed so that the maintenance easement for any pond is free and clear for equipment to enter and to perform maintenance		
	if ponds are fenced, the fence shall be located to provide access to all pond components and the gate shall be located to provide access from the defined access easement		
	dumpster enclosure (will fry grease be used and stored outside?), if so provide a detail canopy or cover over grease containment area and a method of spill prevention		
<b>GRADING PLANS</b>			
	Label Contour elevations – existing and proposed (2' min contour interval)		
	Grading – prevent unnecessary ponding; swales min 1% max 5% without riprap max 10% without paving (Provide flow lines for drainage purposes)		
	Show flow arrows and percent grade throughout.		
	CUT OR FILL Slopes CAN NOT BE STEEPER THAN 2:1, Landscape strips 4:1 please label the slopes for ease of review.		
	Provide shoulders – drives, parking, buildings (especially on one way streets) usually 8' wide minimum.		
	Show Finished Floor Elevation for proposed buildings. Ensure FFE is at a minimum of 3' above the 100 YR Flood Elevation or 1' above Future-Conditions Flood Elevation, whichever is higher.		
	Is land development including the placement of utilities or roads proposed within a special flood hazard, flood way or flood plain area? If yes, include the Floodplain Management Review Checklist.		
	Show Spot Elevations throughout– Proposed, EOP, curbs, TOP OF WALL/ BOTTOM OF WALL, ETC.		
<b>HYDROLOGY REPORT</b>			
	Report shall be in compliance with the latest edition Georgia Stormwater Management Manual (GSMM)		
	Runoff Reduction Achieved?		
	If Runoff Reduction is not achieved, submit Runoff Reduction Infeasibility Form (approved?)		
	Post development Q's shall be less than pre development Q's		
	Justify and show the time of concentration (min 5 minutes), "C" factors, drainage areas, P Values, Storm type and Shape Factors		
	Show the SCS method for detention analysis and Rational method for pipes		
	Show calculations and details for determining runoff volumes for each basin or sub-basin to meet post-development stormwater management performance criteria in section 10-165 of the SWMM		
	- runoff reduction - if not included submit Infeasibility Form		
	- water quality		
	- channel protection		
	- overbank flood protection		
	- extreme flood protection		

	Show total acreage, total disturbed acreage, total drainage acreage (on site and off site) as total bypass acreage on drainage plans		
	topographic map of existing site conditions with drainage basin boundaries indicated		
	delineate and describe all perennial or intermittent streams or other surface water features that contribute to the site or are within 200 feet of the site		
	total area of post-development impervious surfaces and other land cover areas for each sub-basin affected by the project		
	Documentation and calculations for any applicable site design credits		
	narrative describing how the selected structural stormwater controls will be appropriate and effective and correspond with any watershed protection plans or local greenspace protection plans		
	hydrologic and hydraulic analysis of the stormwater management system for all applicable design storms (including stage-storage or outlet rating curves, inflow and outflow hydrographs)		
	any necessary documentation and calculations showing that the storm water management system adequately meets the post-development stormwater management performance criteria in section 10-165		
	a downstream peak flow analysis including assumptions, results and calculations, showing safe passage of post development flows downstream		
	include details of all facility structures (OCS, flumes, dams, retaining walls, etc.) must match the plans		
	include a completed site development review tool (latest edition) with Runoff Reduction achieved or at least 80% TSS removal (with approved runoff reduction infeasibility form)		
	Include an inspection and maintenance schedule, maintenance tasks, who is responsible for maintenance, funding, access and safety issues related to maintenance		
	identify all parts or components of the stormwater management facilities or practices that need to be regularly or periodically inspected and maintained, also list equipment or training necessary to perform maintenance.		
	certify that all other applicable environmental permits have been acquired for this site. If none required, add statement of no environmental permits required.		
<b>REQUIRED NOTES ON COVER SHEET</b>			
	<b>DRAINAGE EASEMENT NOTE: The owner of record, on behalf of himself (itself) and all successors in interest specifically releases the City of Newnan from any and all liability and responsibility for flooding or erosion from storm drains or from flooding from high water of natural creeks, rivers or drainage features shown herein. A drainage easement is hereby established for the sole purpose of providing for the emergency protection of the free flow of surface waters along all watercourses as established by the regulations of the City of Newnan. The Public Works Director may conduct emergency maintenance operations within this easement where emergency conditions exist. Emergency maintenance shall be the removal of trees and other debris, excavation, filling and the like, necessary to remedy a condition, which in the judgment of the Public Works Director, is potentially injurious to life, property or the public roads or utility system. Such emergency maintenance, conducted for the common good, shall not be construed as constituting a continuing maintenance obligation on the part of the City of Newnan nor an abrogation of the City's rights to seek reimbursement for expenses from the owner/s of the property/ies of the lands that generated the conditions.</b>		