



# ALLEGANY COUNTY, MARYLAND

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## FINAL PLAN CHECKLIST

The following checklist was developed by Allegany County to assist with the preparation of a **(Phase III) Final Plan** to be submitted for review. This checklist must be completed and included with the Final Plan submittal. Utilizing this checklist will support completeness and uniformity in Final Plan preparation, which will expedite the plan review and permit issuance process. Not all items on this checklist will be applicable for each and every project, in which case the “N/A” box should be checked. **Items which are checked “No” should include a written response explaining the reason for the deviation from requirements and a formal request for variance or waiver, as applicable. Items which are checked “Yes” should include a reference sheet or page number where the information may be found.**

Date:			County Plan #:	
Development/Project Name:				
Development/Project Location:				
Owner:			Phone #:	
Consultant:			Phone #:	
Yes	No	N/A	<b>GENERAL INFORMATION</b>	<b>REF PAGE / SHEET NO.</b>
			This Checklist completed and included with submittal	
			Minimum seven (7) copies Plans and three (3) copies Report enclosed	
			All information provided in Concept Plan and Site Development Plan submittals	
			Point by point responses to Site Development Plan review comments	
			Seal of a licensed design professional	
			Maryland professional certification	
			Owner/Developer certification that all SWM construction will be done according to approved plan	
			Designer certification	
			Line item cost estimate (publicly bid rates) for all infrastructure to be bonded	
Yes	No	N/A	<b>GEOTECHNICAL DATA AND ANALYSIS</b>	<b>REF PAGE / SHEET NO.</b>
			Geotechnical Report	
			Minimum boring locations: borrow area, permanent pool area, centerline top of dam, emergency spillway	
			Boring logs w/ Unified Soil Classification, Rvalue/California Bearing Ratio, blow counts & soil description	
			Compressive strength for foundation design and recommended foundation system	
Yes	No	N/A	<b>FINAL PLAN</b>	<b>REF PAGE / SHEET NO.</b>
			Certification: Field Verification of Map by Project Engineer	
			Signature blocks indicating:	
			<ul style="list-style-type: none"> <li>“Approved for Stormwater Management”            Allegany County Department of Planning &amp; Growth, Land Use &amp; Planning Engineer</li> </ul>	

			<ul style="list-style-type: none"> <li>“Approved for Construction” Allegany County Department of Public Works, County Engineer</li> </ul>	
			<ul style="list-style-type: none"> <li>“Approved for Sediment &amp; Erosion Control” Allegany Soil Conservation District</li> </ul>	
			Site data including site area, disturbed area, new impervious area, and total impervious area	
			Existing and proposed topography	
			<b>Miscellaneous Features</b>	
			Exterior lighting	
			Commercial and street sign locations w/ details	
			Retaining wall details	
			Fence details	
Yes	No	N/A	<b>STORMWATER MANAGEMENT (SWM) PLAN</b>	<b>REF PAGE / SHEET NO.</b>
			Address any outstanding review comments related to proposed ESD practices	
			Provide table showing Unified Sizing Criteria volumes required	
			SWM facility maintenance schedule provided for all proposed ESD and BMP practices	
			Entire SWM facility, including maintenance access, must be on easement/right-of-way	
			<b>Best Management Practices</b>	
			Pond/wetland meets MD SCS Standard and Specification Pond Code 378, November 1992	
			Non-378 Pond/Wetland meets specifications in Appendix B.1.1 *	
			Forebay provided at each inflow point and inflow discharged at normal pool (wet) or pond bottom (dry)	
			Forebay sized to contain 0.1 inches per impervious acre	
			Flared end section proposed on outfall pipe	
			Outfall stabilized/protected	
			Liner specifications if underlying geology includes karst, gravelly sands, or fractured bedrock	
			Landscaping plan provided (reference Appendix A *)	
			Dry pond bottom slope to outlet structure is not less than 2.0 percent	
			<b>Public Safety Items</b>	
			Combined slopes of pond no steeper than 5:1 (H:V) (i.e. 2:1+3:1=5:1)	
			Slopes above permanent pool of pond no steeper than 4:1, or 3:1 if 15 ft wide safety bench provided	
			Permanent pool safety bench to be 15 feet wide and 1 foot above permanent pool	
			Riser outlet structure and barrel design minimizes accessibility to children	
			Fencing consideration	
			Cross-section through embankment/dam at principal spillway	
			Existing ground and proposed grade, dam side slopes and top width (min. 10 ft.) labeled	
			Core trench; 4 ft bottom width (min), 1:1 side slopes (max), 4 ft depth (min)	
			Barrel: type/material (same as riser)/size/slope/inverts/bedding/ outlet protection/watertight joints	
			Outlet riser structure details	
			Type, material, and structural dimensions	
			Structural and foundation details	
			Trash rack details (openings $\leq$ 1/2 of barrel diameter but not less than 6"; no flat racks; see MD 378)	
			Anti-vortex device details	
			Maintenance access	
			Low flow outlet device details	

		Type, material, and dimensions (if <3", internally controlled orifice required – see Appendix D.8 *)	
		Trash and debris protection	
		Pond drain details (wet ponds)	
		Inlet prevents sediment uptake and is non-clogging	
		Pond drains within 24 hours	
		Anti-seep collars	
		Size and material (compatible with pipe), spacing and location of barrel, and method of construction	
		Labeled as being located at least 2 feet from barrel joint	
		Collar dimensions extend 2 ft. (min) in all directions around pipe	
		Phreatic Line: 4:1 slope measured from inside slope at the 10-year water surface elevation	
		Outfall protection details	
		Size for peak 10-year outflow	
		Outfall dimensions: geometric shape, slope, lining	
		Riprap graduation; provide d50 as minimum	
		Riprap blanket thickness at least 2.25 times the d50	
		Filter fabric; construction and material specifications	
		Plunging or Stilling Basin (as required)	
		Elevations	
		Top of embankment/dam, constructed and settled (1 foot minimum freeboard above 100-year pool)	
		Crest of emergency spillway (2 foot minimum below the top of settled embankment)	
		Crest of riser outlet structure (1 foot minimum below crest of emergency spillway)	
		Water surface elevations for WQv, CPv, 2, 10, and 100-year pools, as applicable	
		Profile section of embankment along centerline	
		Existing ground and proposed grade	
		Top of dam (constructed and settled)	
		Location of emergency spillway with side slopes labeled	
		Bottom of core trench (4 ft min) and top of impervious core (extends at least to 10-yr elevation)	
		Location of soil borings	
		Barrel location	
		Existing and proposed utilities (ref. MD 378)	
		Emergency spillway cross section	
		Trapezoidal; 8 ft. minimum width; minimum 2:1 side slopes	
		Emergency spillway profile along centerline	
		Located in a undisturbed earth	
		Existing ground and proposed grade	
		Inlet, level control (25 ft. min), and outlet sections provided	
		Min. straight length of outlet channel (ref. MD Std's & Specs for SEC, Section 18.16)	
		Lining details	
		Spillway crest elevation	
		Principal spillway specified to be installed concurrently w/ fill placement; not excavated into embankment	
		Structural backfill in ≤4" lifts, compacted w/ hand tampers	

			<b>Construction Details and Material Specifications</b>	
			Standard details for all proposed roads/utilities/stormwater/slope stabilization/lighting/planting/ etc.	
			Earth fill specifications:	
			• Core Material: GC, SC, CH or CL w/ $\geq 30\%$ passing #200 sieve	
			• Placement (max 8" thick layers)	
			• Compaction ( AASHTO Method T-99, Standard Proctor)	
			Miss Utility note	
			Pipes/culverts	
			Concrete and reinforcement	
			Riprap for channel lining, outfall protection, and slope protection	
			Filter fabric for channel lining, outfall protection, and slope protection	
			Fencing	
			De-watering during construction	
			Hot mix asphalt	
			Aggregate	
Yes	No	N/A	<b>FINAL SEDIMENT &amp; EROSION CONTROL (SEC) PLAN</b>	<b>REF PAGE / SHEET NO.</b>
			Drainage area map for sediment trapping devices	
			Limits of disturbance	
			SEC sheets labeled, numbered and identified as sheet no. ___ of ___	
			Stock pile and/or borrow area location (if n/a, note in site information)	
			Locations and method of stabilization (riprap, seed, matting, pavement, etc.)	
			Details, specifications and standard symbols for each SEC measure	
			Developers and Design certification for SEC	
			Sequence of Construction w/ time table	
			Details and sizes of existing and proposed drainage control structures (traps, ditches, culverts, etc.)	
			Designs of structures and/or practices, provide calculations	
			Location of sediment control measures	
			Required standard erosion and sediment control notes	
			<b>Revegetation Specifications</b>	
			Seedbed preparations	
			Permanent seeding (mix & rate) – include method of application	
			Temporary seeding (mix & rate) – include method of application	
			Mulching (include anchoring method)	
			Matting (type & specifications)	
			Fertilizer and lime (amount & type)	
			<b>Site Information</b>	
			Total cut in cubic yards	
			Total fill in cubic yards	
			Volume of material in cubic yards	
			Soils type	
			<b>Road Profiles</b>	
			Location and spacing of interceptor dikes and culverts	
			Location of diversion dikes	
			Inlets for dikes and culverts (type of structure and size)	
			Outlets for dikes and culverts (type of structure and size)	
			Stream crossings (type of structure and size)	
			Typical cross section of roads, extending from toe of fill to top of cut, including ditches	

			<b>Dikes</b> (perimeter, diversion, interceptor)	
			Practice meets purpose and design criteria	
			Positive drainage is maintained	
			Flow area of dikes over 5% properly stabilized	
			Outlet to sediment trapping device or onto stable outlet	
			Points of vehicular crossing shown and stabilized	
			<b>Sediment Traps</b> (pipe, grass, storm inlet, swale, stone and riprap)	
			Plan view of trap and storage area (top and bottom area drawn to scale)	
			Bottom dimensions and control elevations (bottom clean-out and discharge)	
			Contributing drainage area and volume computations	
			Type and size of outlet structure	
			Stabilized inlet and outlet	
			Practice meets purpose and design criteria	
			<b>Temporary Swales</b> (interceptor, perimeter)	
			Contributing drainage area shown	
			Required cross section can be installed	
			Provisions for traffic crossing shown on plan	
			Channel grade over 5% properly stabilized	
			Adequate outlet or discharge condition	
			Practice meets purpose and design criteria	
			<b>Silt Fence</b>	
			Drainage area doesn't exceed 1/2 acre per 100 ft. of fence	
			Placed on contours	
			Meets maximum allowable slope length	
			Used for sheet erosion	
			<b>Sediment Basins</b>	
			Plan view of dam and storage area	
			Profile along center line of dam	
			Profile of emergency spillway	
			Cross section through dam or impoundment at principal spillway	
			Detail of riser base, anti-vortex device, anti-seep collars and trash rack	
			Design data sheet properly completed	
			Outlet protection detail and downstream outfall conditions	
			Volume and emergency spillway design computations	
			Provisions for stabilization	
Yes	No	N/A	FINAL REPORT	REF PAGE / SHEET NO.
			All calculations/routings supporting design of Best Management Practice(s)	