



COMPREHENSIVE DRAINAGE PLAN REVIEW CHECKLIST

PROJECT: _____

REVIEW DATE: _____

ITEM	YES	NO	N/A
SUBMITTAL INFORMATION:			
Comprehensive drainage plan submittal checklist			
VSMP general registration statement (req'd for VSMP permits only)			
VESCP (land disturbing) permit application			
Previously approved Stormwater Management Concept Plan, if required			
Stormwater Management Final Plan			
Erosion and Sediment Control Plan			
Stormwater Pollution Prevention Plan-SWPPP (req'd for VSMP permits only)			
Stormwater Management Inspection & Maintenance Agreement			
GENERAL INFORMATION:			
Site address			
City parcel number(s)			
Site owner & address			
City tax map number			
Current zoning			
Current & proposed use			
The above information for all adjoining properties			
Total amount of land disturbance			
Total amount impervious area, both pre & post development			
If two or more parcels, pre & post impervious area for each parcel			
Table including the following information for each SWM facility:			
Facility type			
Acres treated by facility:			
Total acres			
Impervious area			
Managed turf			
Forest/open space			
VA 6th order hydrologic code			
Receiving waters			

GENERAL NOTES:			
Responsible Land Disturber			
Design engineer certification			
SWM Maintenance Agreement			
Record drawings			
SWM Narrative describing methods used to address:			
Stormwater quality compliance			
Stormwater quantity compliance			
Low Impact Design (LID) compliance			
Chesapeake Bay TMDL requirements			
STORMWATER MANAGEMENT CONCEPT PLAN:			
Map(s) identifying the following:			
Existing & proposed buildings, roads, parking, utilities			
Existing & proposed easements			
Riparian buffers			
SWM facilities			
Existing and proposed drainage patterns			
Limits of clearing & grading			
Existing and proposed two-foot contours			
Written description of site plan & justification of proposed changes			
Written or graphic inventory of natural resources and watershed			
Existing tree & vegetation plan identifying the following:			
Outline of existing masses of vegetation			
Description of existing conditions			
Description of preservation strategies			
STORMWATER MANAGEMENT FINAL PLAN:			
All items listed for SWM Concept Plan have been addressed			
Map(s) identifying the following:			
Existing & proposed two-foot contours			
Spot elevations at critical locations			
All contributing drainage areas			
Pre & post Tc flow paths with type of flow, length, slope labeled			
CN numbers or runoff coefficients			
All existing and proposed water features			
Soil types, forest and other vegetative cover			
Karst features; if present, study performed			
Limits of clearing & grading			
Locations of all SWM facilities			
Tr-55/TR-20 method used for drainage areas greater than 20 acres			
Rational Method for drainage area 20 acres or less			
Modified Rational Method for drainage area 20 acres or less			
Rainfall rates per NOAA Atlas 14			
Pre & post total runoff volumes for each drainage area			
Infiltration rates			
Culvert capacities			

Storm sewer capacities			
Hydraulic grade line calculations			
Hydraulic grade line 12 inches below inlet throat			
Storm inlet calculations			
Channel calculations			
Soils report			
All soils Type C, unless otherwise demonstrated			
Stormwater planting plan			
Water quality calculations:			
Per VSMP Regulations Section 9VAC25-870-63 & 65			
VA Runoff Reduction Method spreadsheet			
BMP(s) used listed on VA Stormwater BMP Clearinghouse website			
BMP(s) designed per SWM Handbook			
Channel protection calculations in accordance with:			
VSMP Regulations Section 9VAC25-870-66 (B)			
Flood protection calculations in accordance with:			
VSMP Regulations Section 9VAC25-870-66 (C)			
For SWM facilities:			
10 year post peak runoff rate does not exceed 2 year pre peak runoff rate			
2 year post peak runoff rate does not exceed 1 year pre peak runoff rate			
Emergency spillway designed for 100 post peak runoff rate			
LOW IMPACT DESIGN (LID):			
LID practices incorporated into plan			
Maximize post development flow paths			
Roof drains directed onto vegetated swales or filter strips			
Impervious area minimized			
Land disturbance minimized			
STORMWATER POLLUTION PREVENTION PLAN - SWPPP:			
Public notification note per 9VAC25-880-70 Part II C			
SWPPP availability note per 9VAC25-880-70 Part II D			
Narrative describing nature and function of project			
Identify any impaired waters - Lewis Creek			
Identify any approved TMDL(s) - Chesapeake Bay TMDL			
Note stating revised inspection schedule for TMDL(s)			
Identify pollutant(s) of concern - phosphorus, nitrogen, sediment			
Site plan identifying:			
Directions of stormwater flow			
Proposed final grading			
Limits of disturbance			
Areas not to be disturbed			
Major structural and nonstructural control measures			
Surface waters			
Concentrated stormwater discharges			
Support activities, including not limited to:			
Equipment & vehicle washing			

Storage areas for chemicals			
Concrete wash out areas			
Vehicle fueling and maintenance areas			
Sanitary waste facilities			
Construction waste storage			
Pollution Prevention Plan (PPP) identifying:			
Potential pollutant generating activities			
Locations where potential pollutant generating activities will occur			
All nonstormwater discharges allowed by general permit			
Description of all pollution prevention practices & procedures:			
To prevent and respond to leaks, spills and other releases			
To prevent the discharge of spilled and leaked fuels & chemicals			
To prevent the discharge soaps, solvents, detergents, wash water			
To minimize the discharge of pollutants from vehicle and equipment washing			
Direct concrete wash water into leak proof containers			
To minimize the discharge of pollutants from storage, handling & disposal of construction products			
To prevent the discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, sanitary wastes			
Responsible person for implementing pollution prevention practices			
Describe procedures to convey pollution prevention practices & procedures to all site personnel			
Name, phone number, email address and qualifications of the personnel conducting inspections			
Signed certification statement			
EROSION AND SEDIMENT CONTROL PLAN:			
The following completed checklists submitted:			
Checklist for Erosion and Sediment Control Plans & Narrative			
Minimum Standards Checklist			

The above checklist is a summary of the required elements of a comprehensive drainage plan, see SCC Chapters 13.05 thru 13.14 for additional information required.