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Gloucester County

✓ PLAN SUBMITTER'S CHECKLIST ✓

FOR EROSION AND SEDIMENT CONTROL PLANS

Please fill in all blanks and <u>please reference the plan sheets/pages where the information may be found</u>, where appropriate, or write N/A by items that are not applicable.

Phone Number
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ompleted.
grading and stormwater and any activities tha

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Please enter shee	t # on line below. Check boxes below when completed.
9	☐ On-site & off-site borrow or disposal areas that do not have separate approved ESC plans
10	Professional's seal - The designer's original seal, signature, and date are required on the <i>cover</i> sheet of each Narrative and each set of Plan Sheets. A facsimile is acceptable for subsequent Plan Sheets.
11	☐ Number of plan sets – All digital and hard copy SWM/ESC Plans are submitted to the Deputy County Administrator's (Site Plan Coordinator) office
12	☐ <u>Variances</u> - Variances requested at the time of plan submission are governed by Sec9VAC25-840-50 of the <i>Virginia Erosion and Sediment Control Regulations</i> .
13	Certified Responsible Land Disturber (RLD) - A certified RLD is required during all stages of construction, from the initial land disturbance through final site stabilization. The name of the project RLD must be provided before any land disturbance may begin. Notify Gloucester County Environmental Department in a timely manner if the RLD changes during the project.
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NARRATIVE

Please enter sheet # on line below.	Check boxes below when completed.

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PROJECT NAME:	SUBMITTAL#:
22	<u>Permanent stabilization</u> - A brief description, including specifications, of how the site will be stabilized after construction is completed.
21	<u>Management strategies / Sequence of construction</u> - Address management strategies, the sequence of construction, and any phasing of installation of ESC measures.
20	<u>Erosion and sediment control measures</u> - A description of the structural and vegetative methods that will be used to control erosion and sedimentation on the site. Controls should satisfy applicable minimum standards and specifications in Chapter 3 of the 1992 <i>Virginia Erosion and Sediment Control Handbook</i> (VESCH) or more stringent local requirements.
19	<u>Critical areas</u> - A description of areas on the site that have potentially serious erosion problems or that are sensitive to sediment impacts (e.g., steep slopes, watercourses, wet weather / underground springs, etc.).
18	<u>Soils</u> - Provide a description of the soils on the site, giving such information as soil name, mapping unit, erodibility, permeability, surface runoff, and a <i>brief</i> description of depth, texture and soil structure. Show the site location on the Soil Survey if it is available. Include a plan showing the boundaries of each soil type on the development site.
17	Off-site areas - Describe any off-site land-disturbing activities that may occur (borrow sites, disposal areas, easements, etc.). Identify the Owner of the off-site area and the entity responsible for plan review. Include a statement that any off-site land-disturbing activity associated with the project must have an approved ESC Plan. Submit documentation of the approved ESC Plan for each of these sites.
16	Adjacent areas - A description of all neighboring areas such as residential developments, agricultural areas, streams, lakes, roads, etc. that might be affected by the land disturbance.
15	<u>Existing site conditions</u> - A description of the existing topography (% slopes), ground cover, and drainage (on-site and receiving channels).
14	<u>Project description</u> - Briefly describe the nature and purpose of the land-disturbing activity. Provide the area (acres) to be disturbed.

Please enter sheet # on line below. Check boxes below when completed.

23	Maintenance of ESC measures - A schedule of regular inspections, maintenance, and repair of erosion and sediment control structures should be set forth.
24	Calculations for temporary erosion and sediment control measures - For each temporary ESC measure, provide the calculations required by the standards and specifications.
25	Stormwater management considerations - Will the development of the site cause an increase in peak runoff rates? Will the increase in runoff cause flooding or channel degradation downstream? Describe the strategy to control stormwater runoff, including during construction.
26	Specifications / Detail Drawings for erosion and sediment control measures - For each erosion and sediment control measure employed in the plan, include, at a minimum, the detail from the standard and specification in the VESCH or more stringent local requirements. Include any approved variances or revisions to the standards and specifications.
27	Specifications for stormwater and stormwater management structures - Provide specifications for stormwater and stormwater management structures, i.e., pipe materials, pipe bedding, stormwater structures.
SITE PLAN Please enter sl	heet # on line below. Check boxes below when completed.
28	<u>Vicinity map</u> - A small map locating the site in relation to the surrounding area. Include any landmarks that might assist in locating the site.
29	☐ <u>Indicate north</u> - The direction of north in relation to the site.
30	Off-site areas - Include any off-site land-disturbing activities (e.g., borrow sites, disposal areas, etc.) not covered by a separate approved ESC Plan.
31	Legend - Provide a complete listing of all ESC measures used, including the VESC uniform code symbol and the standard and specification number. Include any other items necessary to identify pertinent features in the plan.
32	Property lines and easements - Show all property and easement lines. For each adjacent property, list the deed book and page number and the property owner's name and address.
33	Existing vegetation – Show the existing tree lines, grassed areas, or unique vegetation.
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Please enter sheet # on line below. Check boxes below when completed.

	SUBMITTAL#: SED:
47	Provide adequacy calculations for all on-site stormwater conveyances.
	Ensure that increased volumes of sheet flows are diverted to a stable outlet, to an adequate channel, pipe or pipe system, or to a stormwater management facility.
	Provide calculations for the design of each permanent stormwater management facility.
44	Ensure that Minimum Standard 19 is satisfied for each off-site receiving channel, including those that receive runoff from stormwater management facilities.
43	Provide calculations for pre- and post-development runoff from these drainage areas.
42	Provide exhibits showing the drainage divides, the direction of flow, and the size (acreage) of each of the site drainage areas that discharge runoff off-site, both existing and proposed.
41	Adequate Conveyances – Ensure that stormwater conveyances with adequate capacity and adequate erosion resistance have been for provided all on-site concentrated stormwater runoff. Off-site channels that receive runoff from the site, including those receiving runoff from stormwater management facilities, must be adequate. Increased volumes of sheet flows must be diverted to a stable outlet, adequate channel, pipe or pipe system, or a stormwater management facility.
40	Location of practices - The locations of erosion and sediment control and stormwater management practices used on the site. Use the standard symbols and abbreviations in Chapter 3 of the VESCH.
39	Site development – Show all improvements such as buildings, parking lots, access roads, utility construction, etc. Show all physical items that could affect or be affected by erosion, sediment, and drainage.
38	Final contours and elevations – Show changes to the existing contours, including final drainage patterns.
37	<u>Existing contours</u> – Show the existing contours of the site.
36	Critical areas – Note all critical areas on the plan.
35	Protection of areas not being cleared - Fencing or other measures to protect areas that are not to be disturbed on the site.
34	Limits of clearing and grading – Delineate all areas that are to be cleared and graded.

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48	Calculations for permanent stormwater conveyances - For each permanent stormwater conveyance or structure, provide the following design calculations, as applicable:
Please enter sheet	t # on line below. Check boxes below when completed.
49	☐ Drainage area map with time of concentration (T _C) path shown
50	☐ T _C calculation/nomograph
51	☐ Locality IDF curve
52	☐ Composite runoff coefficient or RCN calculation
53	☐ Peak runoff calculations
54	☐ Stormwater conveyance channel design calculations
55	☐ Storm drain and storm sewer system design calculations
56	☐ Hydraulic Grade Line if any pipe in the system is more than 90% full for a 10-year storm
57	☐ Culvert design calculations
58	☐ Drop inlet backwater calculations
59	☐ Curb inlet length calculations
60	Direction of Flow for Conveyances - Indicate the direction of flow for all stormwater conveyances (storm drains, stormwater conveyance channels).
61	Storm Drain Profiles - Provide profiles of all storm drains except roof drains. If the type of pipe (RCP, CMP, HDPE, etc.) is not called out on the profiles, then the most conservative pipe material that may be specified for the project must be used in the adequacy calculations.
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MINIMUM STANDARDS

PLANS DATED: _____

Sheet #		

			Minim	um Standards - All Minimum Standards must be addressed.
Yes	No	N.	A	
0 0 0 0 0 0	[] [] [] [] [] []	() () () () () () ()	MS-1	Have temporary and permanent stabilization been addressed in the narrative? Are practices shown on the plan? Temporary and permanent seed specifications? Lime and fertilizer? Mulching? Blankets/Matting? Pavement/Construction Road Stabilization?
[]	[]	[]	MS-2	Has stabilization of soil stockpiles, borrow areas, and disposal areas been addressed in the narrative and on the plan? Have sediment trapping measures been provided?
[]	[]	[]	MS-3	Has the establishment and maintenance of permanent vegetative stabilization beer addressed?
[]	[]	[]	MS-4	Does the plan specifically state that sediment-trapping facilities shall be constructed as a first step in land-disturbing activities?
[]	[]	[]	MS-5	Does the plan specifically state that stabilization of earthen structures is required immediately after installation? Is this noted for each measure on the plan?
[]	[]	[]	MS-6	Are sediment traps and sediment basins specified where needed and designed to the standard and specification?
[]	[]	[]	MS-7	Have the design and temporary/permanent stabilization of cut and fill slopes beer adequately addressed? Is Surface Roughening provided for slopes steeper than 3:1?
[]	[]	[]	MS-8	Have adequate temporary or permanent conveyances (paved flumes, channels, slope drains) been provided for concentrated stormwater runoff on cut and fill slopes?
[]	[]	[]	MS-9	Has water seeping from a slope face been addressed (e.g., subsurface drains)?
0	[]	[]	MS-10	Is adequate inlet protection provided for all operational storm drain and culvert inlets?
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Yes	No	NA	
	[] []	[] MS-11 []	Are adequate outlet protection and/or channel linings provided for all stormwater conveyance channels and receiving channels? Is there a schedule indicating: Dimensions of the outlet protection? Lining? Size of riprap? Cross section and slope of the channels? Type of lining? Size of riprap, if used?
[]			
		[] MS-12	Are in-stream protection measures required so that channel impacts are minimized?
[]	[]	[] MS-13	Are temporary stream crossings of non-erodible material required where applicable?
[]	[]	[] MS-14	Are all applicable federal, state and local regulations pertaining to working in or crossing live watercourses being followed?
[]	[]	[] MS-15	Has immediate restabilization of areas subject to in-stream construction (bed and banks) been adequately addressed?
[]	[]		Have disturbances from underground utility line installations been addressed? No more than 500 linear feet of trench open at one time?
[] [] []	[] [] []	[] [] []	Effluent from dewatering filtered or passed through a sediment-trapping device? Proper backfill, compaction, and restabilization?
[]	[]	[] MS-17	Is the transport of soil and mud onto public roadways properly controlled? (i.e., Construction Entrances, wash racks, transport of sediment to a trapping facility, cleaning of roadways at the end of each day, no washing before sweeping and shoveling)
[]	[]	[] MS-18 []	Has the removal of temporary practices been addressed? Have the removal of accumulated sediment and the final stabilization of the resulting disturbed areas been addressed?
[]	[]	[] MS-19	Are properties and waterways downstream from development adequately protected from sediment deposition, erosion, and damage due to increases in volume, velocity and peak flow rate of stormwater runoff? Have adequate channels been provided on-site?
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CHECKLIST PREPARER

I certify that I am a professional in adherence to all minimum standards and requirements pertaining to the practice of that profession in accordance with Chapter 4 (§ 54.1-400 et seq.) of Title 54.1 of the Code of Virginia and attendant regulations. By signing this checklist, I am certifying that this document and all attachments are, to the best of my knowledge and belief, true, accurate, and complete.

attachments are, to the best of my knowledge and belief, true, accurate, and complete.	
SIGNATURE	
PRINTED NAME	
QUALIFICATIONS	
DATE	
Please Note: The following are required for all ESC / SW Plans!	
1. An Erosion and Sediment Control Surety will be required for the project. The sur	-

- 1. An Erosion and Sediment Control Surety will be required for the project. The surety calculation is: \$3,500 X the approved disturbed acreage. The surety is to be posted to Gloucester County in the form of Irrevocable Letter of Credit, Certified Check, or Money Order prior to the issuance of a Land Disturbance Permit.
- 2. A BMP surety will also be required. The value of the surety is determined by a construction installation estimate submitted by the site plan engineer.
- 3. A completed VAR 10 General Permit Registration Statement and ½ of total fee (balance paid on plan approval) required.
- 4. A complete Stormwater Pollution Prevention Plan (SWPPP) is required on site *prior* to construction.
- 5. A Gloucester County Land disturbance permit and pre- construction meeting is required prior to construction.

TTAL#: