

Level 3 – Storm Drainage Study Report				
Item No.	Submitted ¹	County Use Only		
		Rejected	N/A	
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cover sheet – Including project name, proponent’s name, address, and telephone number, Project Engineer, and date of submittal.
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Table of contents - Show the page numbers for each section of the report, including appendices.
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Project Description – <ul style="list-style-type: none"> • Describe the type of permit(s) for which the applicant is applying, the size and location of the project site, address or parcel number, and legal description of the property, property zoning, etc. • Describe other permits required. • Describe the project, including proposed land use, site improvements, construction of impervious surfaces, and landscaping.
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Existing Conditions - include references to relevant reports such as basin plans, flood studies, groundwater studies, wetland designation, sensitive area designation, environmental impact statements, water quality report, etc.
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Existing Conditions - where such reports impose additional conditions on the applicant, those conditions shall be included in the report. In addition, an existing drainage report or master plan (County approved source) may be used as a baseline and updated with the proposed information.
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Developed site drainage conditions - describe the land cover resulting from the proposed project; describe the potential stormwater quantity and quality impacts resulting from the proposed project; describe the proposal for the collection and conveyance of site runoff from the project site, for the control of any increase in stormwater quantity resulting from the project , and for the control of stormwater quality.
7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hydrological Analysis – including assumptions, computations, and results.
8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Describe the drainage basin(s) to which the project site contributes runoff, and identify the receiving waters for each of these drainage basins.
9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Soils hydrological group(s)
10.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description of upstream basins - identify any sources of runoff to the project site. This should be based on a field investigation. Any existing drainage or erosion problems upstream which may have an impact on the proposed development should be noted.
11.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Downstream Drainage Analysis – the initial drainage report submittal shall include a Level 1 Downstream Drainage Analysis. Any further analysis of downstream conditions required beyond the Level 1 analysis shall be submitted as part of this Drainage Report.

ATTACHMENT #7 CONTINUED

12.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Geotechnical Report - either supervised or prepared by a registered professional engineer (sealed, signed and dated).
13.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Basin map(s) – showing boundaries of project, any offsite contributing drainage basins, onsite drainage basins, approximate locations of all major drainage structures within the basins, and depict the course of stormwater origination from the subject property and extending all the way to the closest receiving body of water. Reference the source of the topographic base map, the scale of the map, and include a north arrow.
14.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hydraulic design computations - supporting the design of proposed conveyance, quantity and quality control facilities, and verifying the capacity of existing drainage facilities. These computations may include capacity and backwater analysis required either as part of the proposed drainage design or as a part of the downstream drainage investigation, and flood routing computations required for the design of detention/retention storage facilities, for wetland impact analysis, or for flood plain analysis.
15.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Erosion and Sedimentation Control - include a description of proposed erosion control objectives and strategies; a description of erosion control facilities and other temporary water quality facilities proposed; a description of the revegetation plan for the project site; identification of areas of concern regarding soil stability and/or water quality impacts; computations for the sizing of temporary stormwater conveyance and quantity control facilities; computations for the design and sizing of proposed sediment containment facilities, etc.
16.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Appendices – include copies of any additional relevant reports, prepared by others, which support or corroborate the findings, conclusions, or assumptions contained in the Drainage Report; copies of any additional permits (or completed permit applications) required for the project.
				Vicinity Map
17.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sheet Size – 11" x 17" or 8½" x 11"
18.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Project Title Sheet
19.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Project Site Plan
20.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Title Block – include name and address of proposed project/development, submittal date, title of drawing, and page number.
21.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drawing Information – <ul style="list-style-type: none"> • North arrow indicator • Section-Township-Range • Drawing Scale • Symbol Legend
22.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drawing Scale – as necessary to clearly present details.

