



Flood Study As-Built Submittal Checklist

Project Name _____

Flood Study Permit # _____

Applicant:

Name: _____
Address: _____
Phone: _____
Email: _____

Engineer:

Name: _____
Address: _____
Phone: _____
Email: _____

Flood Study As-Built Package Requirements
shows what information needs to be provided and what issues need to be addressed when preparing an as-built plan.
Applicant shall select all applicable items below and provide with the submittal.

<input type="checkbox"/>	1.	Submit an engineer’s certification that each pipe has been installed per the plan including a survey drawing of the installed culvert. If design changes are made, the applicant shall resubmit the flood study for approval. [14-15-3, 14-15-4, 14-15-5]
<input type="checkbox"/>	2.	Show and label Q100 backwater easements and backwater elevation (BFE + 1)
<input type="checkbox"/>	3.	Label pipe inverts, materials, pipe diameter and pipe length (per approved plan or resubmit for approval)
<input type="checkbox"/>	4.	A velocity dissipater design specifying length, width, mean stone diameter, outlet velocity and detail is required for each culvert. [10-21-2]
<input type="checkbox"/>	5.	Place an asterisk (*) on all lots affected with flood hazards and add note to plans " * - Before Acquiring a Building Permit for Lots Marked with an " * " the Builder May Need to Obtain a Flood Hazard Permit from County Zoning Administration. The Builders Engineer, Architect of Surveyor Must Certify on Any Permit That All Flood Hazard Requirements Are Met. There Shall be No Filling or the Erection of Permanent Structures in the Areas of Wake County Flood Hazard Soils or Federal Emergency Management Agency Flood Zones. [14-14-1]
<input type="checkbox"/>	6.	Should flood study design incorporate overtopping of PRIVATE road or driveway, indicate stabilization methods and type of downstream embankment. Overtopping shall not exceed 0.5 feet. [FEMA guidance] PUBLIC roads may not be overtopped. [8-32-4] Add a note to the plan to indicate overtopping may occur per Engineered Flood Study, SWF-0xxxxx-xxxx.
<input type="checkbox"/>	7.	Provide Finished floor elevations as required (FEMA and/or Q100 backwater)
<input type="checkbox"/>	8.	Should flood study report prove offsite backwater, applicant must secure and record any necessary backwater encroachment easements. For on-site backwater, label backwater area with flood elevation plus 1'. [14-15-3, 14-15-4, 14-15-5]

Certifications Inspections and Approvals

<input type="checkbox"/>	9.	Permit and Certification Requirements [14-14]
<input type="checkbox"/>	10.	Special Flood Hazard Area Standards. [14-18]
<input type="checkbox"/>	11.	Other documents:
	<input type="checkbox"/>	a. 401 / 404 inspection needed



Planning and Development Services

919-856-7436

Watershed Management
336 Fayetteville St. • Raleigh, NC 27601
P.O. Box 550 • Raleigh, NC 27602
wake.gov

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Table with 3 columns and 3 rows. Row 1: checkbox, 'd.', 'Erosion control site Inspection needed'. Row 2: checkbox, 'e.', 'NCDOT Approval'. Row 3: 'Additional Documentation Provided' header. Row 4: empty row.

Applicant Signature: _____

Date: _____



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