

## Application for STORMWATER PERMIT

P.O. Drawer 357 201 South Main Street Graham, NC 27253 (336) 570-6705 Fax (336) 570-6703 www.cityofgraham.com

Development that disturbs one or more acres, whether in a single project or cumulatively over multiple phases, is required to apply for a Stormwater Permit. Development that disturbs less than one acre is not exempt if such activities are part of a larger common plan of development, even though multiple, separate or distinct activities take place at different times on different schedules.

Site	Applicant			
Street Address:	Person to contact regarding questions or revisions to the plan			
Tax#: GPIN:	Name:			
Total Acres: Existing Built-Upon Acres:	Property Owner Engineer/Surveyor Other			
Current Use:	Company:			
Property Owner:	Mailing Address:			
Phone #	City, State, Zip:			
Proposed Development	Phone #			
Project Name:	Email:			
New Built-Upon Area Total Acres: % of Site: Dwelling Units (if applicable)	<i>Owner's Certification</i> I hereby certify that I have read this application and agree to abide by the terms of any Stormwater Permit issued by the City of Graham.			
Total #: Per Acre: For stormwater purposes, this development is: <b>Low Density</b> , <i>if no more than 24% built-upon area or no more than two dwelling units per acre</i>	Name and Title of Owner or Authorized Agent			
High Density, if exceeds the low density thresholds	Signature of Owner or Authorized Agent Date			
Attachments and Checklist	Designer's Certification (only for high density projects)			
This application <b>must be accompanied</b> by the following: Site Plan, 1 copy and 1 PDF (see the back of this application for a checklist of items that should be shown on the site plan)	I hereby certify that the design-related information submitted with this application for permit coverage was prepared under my direction or supervision and that the information is, in the exercise of my reasonable professional judgment, true,			
<b>Stormwater Calculations, 1 set</b> (see pg. 3 of this application for a checklist of items that should be included)	accurate and complete. I also hereby certify that the stormwater collection, treatment and control system design			

Operations and Maintenance Manual, 1 copy and 1 PDF for high density projects only (see pg. 3 of this application for a checklist of items that should be included)

FOR OFFICE USE ONLY					
Permit #	Remarks:				
Issued by:					
Issued date:					
DEVID#					

reison to contact regularing questions of revisions to the plan
Name:
Property Owner Engineer/Surveyor Other
Company:
Mailing Address:
City, State, Zip:
Phone #
Email:
<b>Owner's Certification</b> I hereby certify that I have read this application and agree to abide by the terms of any Stormwater Permit issued by the

submitted with this application complies with all requirements of the City's Phase II Stormwater Ordinance.

Name and Title of Designer

Signature of Designer

Date

SUBMIT 1 COPY AND 1 PDF OF A SITE PLAN, **1 SET OF CALCULATIONS, AND OPERATIONS AND MAINTENANCE MANUAL** 

## Checklist for Stormwater Permit Site Plan

Che	ck each item to indicate that each submittal requirement has bee	en me	t and that supporting documentation is attached.
	Sheets no larger than 36"x24", plan and profile paper	Site	e Drainage Features
	Minimum text size of 1/8"		Existing and planned drainage patterns (include off-site
	Scale on plan view no smaller than $1''=50'$ and on profile	_	areas that drain through project)
	view no smaller than 1"=50' horizontally and 1"=5' vertically using a grid showing 1' intervals		Existing stormwater control systems
	North Carolina State Plane coordinate system		Sub-watershed delineation showing drainage areas
	Vicinity map on cover sheet, no smaller than 1"=200'		Extent and number of disturbed acres
			Proposed impervious areas
	Legend indicating existing and proposed lines, features and symbols		Soil type and special characteristics
	General notes, owner's name, telephone number and		Name and classification of receiving water course
	mailing address on cover sheet	For	High Density Projects Only
	Elevations in relation to mean sea level; in profile view, labeled in 10' intervals on the heavy lines		Signed and sealed statement on the plans certifying that the design of all stormwater management facilities and
	Benchmark elevations and locations shown on plan view		practices will control and treat the runoff from the from the first one inch of rain over the total drainage area,
	North arrow on plan views		that the designs and plans are sufficient to comply with
	Title block on each sheet, including project title, limits, horizontal and vertical scales, original date, revisions dates, drawing number, checked by and drawn by		applicable standards and policies found in the Stormwater BMP Design Manual, and that the designs and plans ensure compliance with the City's Phase II Stormwater Ordinance
	Seal, sign and date by NC Professional Engineer or		Type of BMP (e.g. wet pond, rain garden, etc)
_	Landscape Architect		Narrative description of proposed stormwater system,
	Street names and state road numbers; indicate surface material of street; for proposed streets and rights-of- way, dimension and label widths back-to-back		including where runoff originates (e.g. roofs, roads), its conveyance within the project, its treatment and its conveyance from the project to the receiving water body
	Proposed and existing curb and gutter, pavement, storm sewers, drainage structures, driveway pipes, water mains, sanitary sewer mains, etc; show all available elevations; show direction of flow for all sanitary sewers		Profile along the centerline of the principal spillway/ outfall pipe extending below the protected outfall or to the downstream structure
_	and storm drains; label materials and pipe sizes		Elevations of the "water quality" surface, temporary storage water surface and the 10 and 100 year storms
	Existing utility lines; label and indicate in legend		Stage-storage table for each BMP
	Final proposed locations and dimensions of all water, storm drain and sanitary sewer lines, devices to be installed on the system, catch basins, culverts, ditches;		If BMP to also treat construction runoff, steps to restore to original design condition
	including grades, pipe sizes, elevations, assumptions,		Construction specifications
	calculations, invert elevations for all inlets and manholes; profiles of sanitary sewer lines		Sequence of construction
	Existing and proposed water, storm drainage and		Individual drainage areas for each BMP
	sanitary sewer easements		Construction drawings and details for permanent
	Existing and proposed topographic lines (min. 2' interval)		measures
	City limits, county lines and other jurisdictions		Size and location of culverts
	Streams, ponds, wetlands, etc. on the site and within 50		Size and location of subsurface drainage conveyances
	feet of the property lines		Disclosure of party ultimately responsible for operation
	Floodplains and floodways		and maintenance of the stormwater system
	Drainage ways and easements		

## Checklist for Stormwater Permit Calculations & Operations and Maintenance Manual Check each item to indicate that each submittal requirement has been met and that supporting documentation is attached.

Stormwater Calculations		Operation and Maintenance Manual		
	Narrative description of calculations (methods, variables,	for	or each BMP, for high density projects only	
	results, etc) and results		Narrative description of the purpose and operation of	
	A statement that "stormwater BMPs designed in accordance with North Carolina Department of the Environment and Natural Resources Division of Water		the BMP Detailed list, description and procedure of routine maintenance items	
	Quality's Manual of Stormwater Best Management Practices"		Detailed list, description and procedure for non-routine maintenance items	
	Time of concentration for pre/post development conditions		Maintenance schedule	
	Pre- and post-construction runoff calculations for each		Steps needed to restore BMP in the event of a failure	
	outlet from the site (at peak discharge points)		Maintenance checklist and inspection form	
	Pre- and post-construction design calculations and hydrographs		BMP construction drawings; replace with record drawings when BMP is complete	
	Design calculations of culverts and storm sewers		Latitude and longitude of each BMP	
	Discharge and velocity calculations for open channel and ditch flows (easements and rights-of-way)			
	Design calculations of cross sections and method of stabilization of existing and planned channels (include temporary linings)			
	Design calculations and construction details of energy dissipators below culvert and storm sewer outlets (diameters and apron dimensions)			

Amount and type of existing and proposed land use