

APPENDIX 5

BMP Certification Requirements

Certification (General)

All structural BMP's proposed to meet the requirements of Chapter 30 Article VII. Environmental Regulations, within the City of Greensboro must be designed and certified by a professional engineer in accordance with Section 30-7-1.5(D) (Permanent Engineered Stormwater Controls) and Section 30-7-1.6(B)(3) (Construction of Watershed Protection Improvements) respectively.

The type of development proposed determines the timing and type of certification required as follows:

Single Family Subdivision

1. A BMP certification of design volume (at a minimum) is required prior to issuing the first CO.
2. A final certification (of design volume, functionality, and construction IAW approved plans) is required prior to issuance of the final CO.

At the time of (initial or final) CO issuance, the BMP certification should be submitted to Sediment and Erosion Control Section whereby a copy is forwarded to Stormwater Management Division. Upon receipt of the certification, Stormwater Operations Management Section will perform a site evaluation to determine if the certification is acceptable.

Group Development and Site Plans

1. A BMP certification of design volume (at a minimum) is required prior to issuing the first CO.
2. A BMP certification is required prior to issuance of the final CO.

Deviation to this requirement may be made for multiple parcel commercial sites (see Case 1 below). At the time of (initial or final) CO issuance, the BMP certification should be submitted to Sediment and Erosion Control Section whereby a copy is forwarded to Stormwater Division. Upon receipt of the certification, Stormwater Operations Management Section will perform a site evaluation to determine if the certification is acceptable.

Commercial Subdivision

1. A BMP certification of design volume (at a minimum) is required prior to issuing the first CO.
2. A BMP certification (of design volume, functionality, and construction IAW approved plans) is required prior to issuance of any other CO (see Case 1 below).

At the time of (initial or final) CO issuance, the BMP certification should be submitted to Sediment and Erosion Control Section whereby a copy is forwarded to Stormwater Division.

Upon receipt of the certification, Stormwater Operations Management Section will perform a site evaluation to determine if the certification is acceptable.

In any case, final approval of installed engineered stormwater controls shall be required at finalization of the grading permit or at issuance of the final building certificate of compliance, whichever comes later. If neither a building permit nor a grading permit is required for a site, then any such engineered stormwater control shall be substantially completed and have full design volume available prior to installation of any built-upon area on the site. An Engineer's Certification of Stormwater Control Completion (Table 30-7-1-6) shall be required prior to final approval by the Enforcement Officer.

**TABLE 30-7-1-6
ENGINEER'S CERTIFICATION OF
STORMWATER CONTROL COMPLETION**

The engineer's certification, required according to Section 30-7-1.6(B) of the Greensboro Development Ordinance and Section 27-22(e) of the Stormwater Management Ordinance upon completion of permanent stormwater control structures, shall be of the following form:

**ENGINEER'S CERTIFICATION OF
STORMWATER CONTROL COMPLETION**

I certify that, pursuant to generally accepted engineering standards in the community, it is my professional opinion that the stormwater control(s) labeled as _____ on this plat (or on name of plat) as recorded in PB _____, PG _____ in the Office of the Guilford County Register of Deeds has been completed in conformance with the plans and specifications approved on (approval date), has its full design volume available, and is functioning as designed.

P.E. SEAL: _____

SIGNATURE: _____

DATE: _____

BMP specific certification forms can be found at the end of this Appendix.

Recertification (Specific Cases)

Case 1: Multiple Parcel Commercial Site Sharing a Common BMP

When multiple parcels within a commercial site are to be developed in phases, a recertification of the BMP is to be requested at the time each parcel is developed and a CO is requested. An exception to this requirement will be made if the site developer/owner submits a letter to Stormwater Management Division stating the developer/owner will maintain development control on all parcels within the development and upon completion of development on the final parcel, the BMP will be recertified as to design function and full design volume.

Case 2: New Site Development using existing BMP

When new development is proposed for an established site and the new development will be treated by an existing BMP, a site inspection of the BMP will be performed by a representative of Stormwater Management. If upon completion of the site inspection, the BMP is found to be functioning as designed and in relatively good (physical) condition (as determined by the Enforcement Officer) then a recertification of the BMP will not be required. In the case of underground detention systems older than 1 year, a recertification will be required.

When the new development will increase the BUA to the maximum design value for the BMP, a recertification of the BMP will be required in conjunction with plan approval.

Case 3: Redevelopment

For redevelopment on a site using an existing BMP, a recertification of the BMP may be required prior to issuance of the final CO (see Case #2 above).

When the new development or redevelopment increases the BUA to the maximum design value for the BMP, **Stormwater Management Division** will require a recertification of the BMP in conjunction with plan approval.

WQ BMP Inspection

Whenever a BMP inspection results in maintenance or repairs to an existing BMP and the maintenance / repairs deviate from the approved plans on file a recertification by a professional engineer will be required in conjunction with repair plan approval.

City (funded) Projects

1. A BMP certification is required prior to issuance of the final CO.

In this case, **Building Inspections** requests the BMP certification and forwards a copy to Stormwater Management Division whose Operations Management Section performs a site evaluation to determine if the certification is acceptable.

Final Plat

In accordance with Section 30-6-11.3 (Required Improvements) of the Greensboro Development Ordinance, no subdivision final plat shall be approved until all required improvements have been installed and accepted by the City or surety has been provided as set forth in Section 30-3-9 (Sureties or Improvement Guarantees).

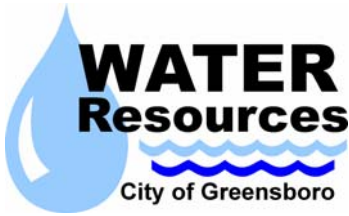
In accordance with Section 30-7-1.6(C) (Recordation of Permanent Improvements) all permanent engineered stormwater controls and associated access/maintenance easement(s) (specific or general, at the owner's option) shall be recorded on a Pond Plat, and a mechanism to ensure their maintenance shall be established concurrent with or prior to plat recordation.

Additional (Drought) Certification Requirements

If, at the time of final certification of a wet detention pond or Stormwater wetlands, a permanent pool is not established and thus cannot be checked for full functionality in accordance with City of Greensboro code of ordinance, one of the following additional requirements shall be met prior to the acceptance of the BMP certification by Stormwater Division:

1. Submission of a geotechnical analysis sealed by a licensed professional engineer concluding the composition of the underlying BMP surface is conducive to holding a permanent pool.
2. Submission of a performance and/or maintenance bond in an amount adequate to cover the cost of relining the BMP bottom with an impervious layer.
3. Submission of a letter of guarantee by the owner or owner's representative stating that in the event the BMP will not hold a permanent pool of stormwater runoff, the owner or owner's representative will take any or all corrective measures necessary to remedy the deficiency up to and including lining the pond surfaces with an impermeable barrier or liner. **This option is not available for single family subdivision development.**

In the event corrective measures are required to establish a permanent pool, the owner or owner's representative will submit a corrective action plan (to include all corrective measures proposed) to the City of Greensboro Stormwater Division for review and approval prior to commencing any corrective measures. Additionally, the owner or owner's representative shall complete all corrective measures within sixty calendar days of receipt of approval from Stormwater Division of the corrective action plan. Regardless of any initial corrective actions taken or agreed to, the pond must ultimately meet the design specifications and full functionality as originally designed by the engineer of record, as required by city ordinance, and shown on the approved watershed plan.



Wet Detention Pond

Record of Construction
Engineer's Certification of Completion

Water Resources Department
Stormwater Management Division
 2602 S. Elm-Eugene St.
 Greensboro, NC 27406
 (336) 373-2055

Project: _____

Date: _____

	<u>Description</u>	<u>Design</u>		<u>As-built</u>	
1	Slope of embankments (3:1 or flatter)				
2	Elevations of the following:				
a	Bottom of clearing, grubbing, & stripping under dam footprint				
b	Bottom of key or cutoff trench				
c	Bottom of pond				
d	Bottom of riser				
e	Top of riser				
f	Water quality orifice				
g	Top of forebay baffle				
h	Invert of inflow & outflow pipe(s)				
3	Top of dam: elevation & width				
4	Bottom width of key or cutoff trench				
5	Compaction requirement of earth work in key or cutoff trench & embankments (e.g. 95% Standard Proctor)				
6	Normal pool depth (measured from top of sediment storage)				
7	Is 10-foot wide vegetated shelf provided around all sides of main pond?				
8	Forebay maintenance access provided (top of embankment to pond bottom)?				
a	Width of maintenance bench				
9	Barrel seepage control: type & size				
10	Size & material of riser/barrel				
11	Verification of volume:				
a	Permanent sediment storage (ft ³) allocation to forebay & pond				
b	Permanent pool surface area (ft ²)				
c	Temporary water quality volume (ft ³)				



Wet Detention Pond

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Project: _____

Date: _____

12	Emergency Spillway: width & crest elevation				
13	Waterstops installed (if applicable)				
14	Size of riser footing (if applicable)				
a	Rebar installed (if applicable)				



Wet Detention Pond

Record of Construction
Engineer's Certification of Completion

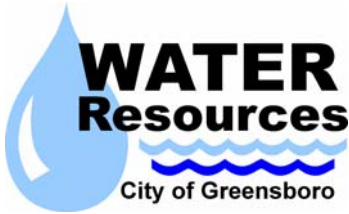
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**ENGINEER'S CERTIFICATION OF
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SIGNATURE: _____ DATE: _____



Stormwater Wetlands

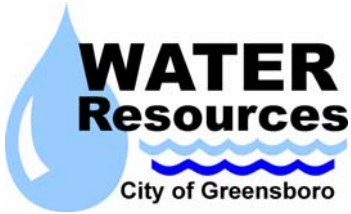
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Water Resources Department
Stormwater Management Division
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 (336) 373-2055

Project: _____

Date: _____

	<u>Description</u>	<u>Design</u>		<u>As-built</u>	
1	Slope of embankments, excavations and/or cuts (3:1 or flatter)				
2	Elevations of the following:				
a	Bottom of clearing, grubbing, & stripping under dam footprint				
b	Bottom of key or cutoff trench				
c	Bottom of forebay & micropool				
d	Bottom of riser				
e	Top of riser				
f	Water quality orifice				
g	Invert of inflow & outflow pipe(s)				
3	Top of dam: elevation & width				
4	Bottom width of key or cutoff trench				
5	Compaction requirement of earth work in key or cutoff trench & embankments (e.g. 95% Standard Proctor)				
6	Width of maintenance benches				
7	Barrel seepage control: type & size				
8	Size & material of riser / barrel				
9	Verification of area & volume:				
a	Permanent sediment storage (ft ³)				
b	Total wetland surface area (ft ²)				
c	Permanent pool "high marsh" depth & surface area (ft ²)				
d	Permanent pool "low marsh" depth & surface area (ft ²)				
e	Forebay (perm. pool) surface area (ft ²)				
f	Micropool (perm.) surface area (ft ²)				
10	Wetland plantings (number and type)				



Stormwater Wetlands

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Stormwater Management Division
2602 S. Elm-Eugene St.
Greensboro, NC 27406
(336) 373-2055

Project: _____

Date: _____

11	Temporary water quality volume (ft ³)				
12	Pool elevation at principal spillway				
13	Emergency Spillway: width & crest elevation				



Stormwater Wetlands

Record of Construction
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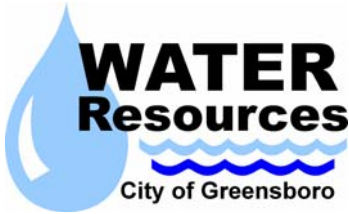
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Bioretention Area

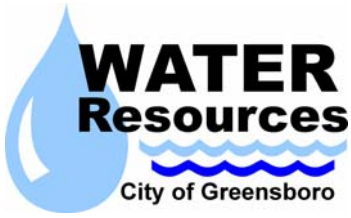
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Water Resources Department
Stormwater Management Division
2602 S. Elm-Eugene St.
Greensboro, NC 27406
(336) 373-2055

Project: _____

Date: _____

	<u>Description</u>	<u>Design</u>		<u>As-built</u>	
1	Bioretention Surface Area				
2	Type & width of pretreatment				
3	Elevations of the following:				
a	Bottom of planting soil				
b	Top of planting soil				
c	Top of mulch layer				
d	Inlet of overflow / bypass structure				
4	Ponding depth				
5	Runoff volume captured (ft ³)				
6	Underdrain System Specifications:				
a	Size & type of perforated pipe				
b	Types and thickness of filter layers around the perforated pipe (#57 stone, choking stone, sand, etc.)				
c	Number of branch lines & spacing width of perforated pipe				
d	Invert elevation of underdrain				
e	Invert elevation of outflow pipe at outlet				
7	Invert elevation of receiving storm sewer / receiving stream water surface				
8	Planting Soil (attach soil test report):				
a	Planting soil depth				
b	Percentage clay				
c	Percentage sand				
d	Percentage organic material				
e	Percentage silt				
f	Soil pH				



Bioretention Area

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Project: _____

Date: _____

9	Planting Specifications:				
a	Planting density (stems/acre)				
b	Number & type of trees				
c	Number & type of shrubs				
d	Number & type of herbaceous species				



Bioretention Area

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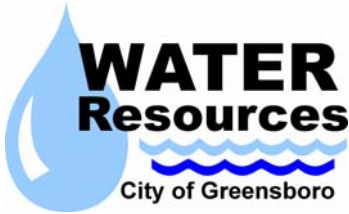
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Sand Filter

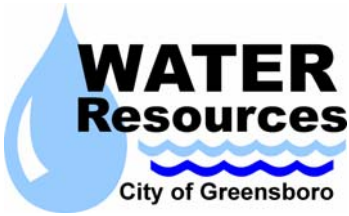
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Stormwater Management Division
 2602 S. Elm-Eugene St.
 Greensboro, NC 27406
 (336) 373-2055

Project: _____

Date: _____

	<u>Description</u>	<u>Design</u>		<u>As-built</u>	
1	Sand Filter Type				
2	Sediment Chamber Specifications:				
a	Sediment Chamber bottom elevation				
b	Sediment Chamber depth				
c	Sediment Chamber surface area (ft ²)				
d	Sediment Chamber volume (ft ³)				
3	Sand Filter Chamber Specifications:				
a	Elevation at top of filter media				
b	Depth of filter media				
c	Filter bed area				
d	Volume				
e	Type & size of filter media				
4	Percent of water quality volume stored in sediment chamber & facility				
5	Underdrain System Specifications:				
a	Size & type of perforated pipe				
b	Type (of stone) and thickness of filters around perforated pipe				
c	Number of branch lines				
d	Invert elevation of underdrain				
e	Invert elevation of outflow pipe at outlet				
f	Invert elevation of receiving storm sewer / receiving stream water surface				
g	Depth of gravel jacket				
6	Invert elevation of overflow / bypass structure				
7	Dissipator pad length & width				
8	Maintenance access provided (Yes / No)				



Sand Filter

Record of Construction
Engineer's Certification of Completion

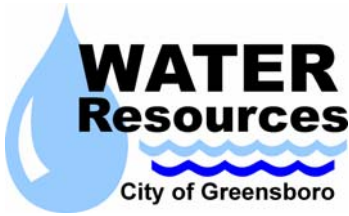
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Dry Detention Basin

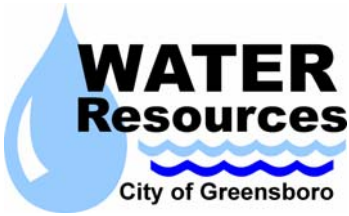
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Engineer's Certification of Completion

Water Resources Department
 Stormwater Management Division
 2602 S. Elm-Eugene St.
 Greensboro, NC 27406
 (336) 373-2055

Project: _____

Date: _____

	<u>Description</u>	<u>Design</u>		<u>As-built</u>	
1	Slope of embankments (3:1 or flatter)				
2	Elevations of the following:				
a	Bottom of clearing, grubbing, & stripping under dam footprint				
b	Bottom of key or cutoff trench				
c	Bottom of Basin				
d	Bottom of riser				
e	Top of riser				
f	Low flow (WQ) orifice (if applicable)				
g	Invert of inflow & outflow pipe(s)				
3	Top of dam: elevation & width				
4	Bottom width of key or cutoff trench				
5	Compaction requirement of earth work in key or cutoff trench & embankments (e.g. 95% Standard Proctor)				
6	Sedimentation Basin surface area (ft ²)				
7	Maintenance access provided (top of embankment to bottom of basin)				
a	Width of maintenance bench				
8	Barrel seepage control: type & size				
9	Size & material of riser/barrel				
10	Verification of volume:				
b	Temporary water quality volume (ft ³)				
11	Emergency Spillway: width & crest elevation				
12	Waterstops installed (if applicable)				
13	Size of riser footing (if applicable)				
a	Footing rebar installed (if applicable)				



Dry Detention Basin

Record of Construction
Engineer's Certification of Completion

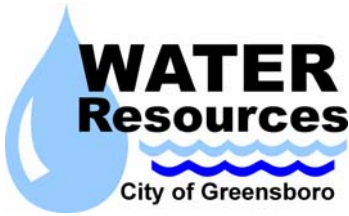
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Underground Detention System

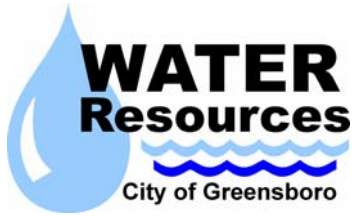
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Stormwater Management Division
2602 S. Elm-Eugene St.
Greensboro, NC 27406
(336) 373-2055

Project: _____

Date: _____

	<u>Description</u>	<u>Design</u>	<u>As-built</u>
1	Detention tank or pipe length, width, depth (or diameter) & material of construction		
2	Elevations of the following:		
a	Bottom of excavation for detention system		
b	Depth of system bedding		
c	Invert of detention tank / pipe(s)		
d	Invert of inflow & outflow pipe(s) Inflow: Outflow:		
e	Invert of low flow orifice (if applicable)		
f	Invert of overflow weir or orifice (if applicable)		
g	Top of manhole cover(s)		
3	System access:		
a	Means of ingress / egress (i.e. access ladder or manhole steps)		
b	Number of access manholes & maximum distance between manholes		
c	Manhole covers locked or bolted (yes / no)		
d	Provisions to prevent unauthorized access via outlet pipes (yes / no)?		
4	Inlet / outlet pipes visible from access points (yes / no)		
5	Verification of volume:		
a	Temporary sediment storage volume (ft ³) and max. depth (ft)		
6	Low flow orifice material of construction		



Underground Detention System

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(336) 373-2055

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Infiltration Device

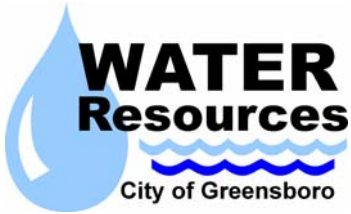
Record of Construction
Engineer's Certification of Completion

Water Resources Department
Stormwater Management Division
 2602 S. Elm-Eugene St.
 Greensboro, NC 27406
 (336) 373-2055

Project: _____

Date: _____

	<u>Description</u>	<u>Design</u>		<u>As-built</u>	
1	Side slope grade (no steeper than 3:1)				
2	Infiltration device (surface) grade (0.05% max.)				
3	Infiltration device area (length and width in feet)				
4	Depth to infiltration trench bottom liner				
5	Soil hydraulic conductivity (inches/hr)				
6	Distance to nearest surface waters (min. of 30')				
7	Distance to nearest water supply well > 100 feet?				
8	Distance to nearest structure (min. 15' downgradient)				
9	Elevations of the following:				
a	Bottom of infiltration device				
b	Top of infiltration drainage media				
c	Impervious soil horizon or bedrock (min. 2' below bottom of device)				
d	Seasonal high water table				
e	Upper edge of filter strip				
f	Surface of filter fabric protective layer				
g	Lower edge of filter strip				
10	Treatment storage (WQ) volume (ft ³)				
11	Number of observation wells (min. of one)				
12	Type of pretreatment device utilized				
13	Length of filter strip (min. length 30')				
14	Width (parallel to flow) of filter strip (min. 30')				
15	Is maintenance access provided (to infiltration device and filter strip)?				



Filter Strip

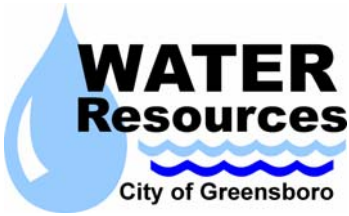
Record of Construction Engineer's Certification of Completion

Water Resources Department
Stormwater Management Division
 2602 S. Elm-Eugene St.
 Greensboro, NC 27406
 (336) 373-2055

Project: _____

Date: _____

	<u>Description</u>	<u>Design</u>	<u>As-built</u>
1	Grade (surface) slope (no greater than 15%; 5% or less preferred)		
2	Elevations on the following:		
a	Top of level spreader lip		
b	Upper edge of Filter Strip		
c	Lower edge of Filter Strip		
3	Length of Filter Strip (min. of 13' and max. of 130')		
4	Width of Filter Strip (30' minimum)		
5	Vegetation Plan Specifications:		
a	Percentage natural wooded		
b	Percentage planted wooded		
c	Percentage grass and thick ground cover		
6	Is maintenance access provided (to distribution device and filter strip)?		



Filter Strip

Record of Construction
Engineer's Certification of Completion

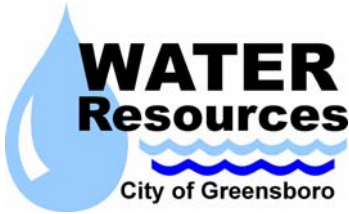
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Restored Riparian Buffer

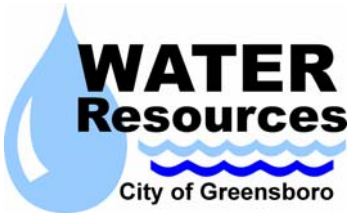
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 2602 S. Elm-Eugene St.
 Greensboro, NC 27406
 (336) 373-2055

Project: _____

Date: _____

	<u>Description</u>	<u>Design</u>	<u>As-built</u>
1	Riparian buffer slope (no greater than 6%)		
2	Elevations on the following:		
a	Top of distribution device (i.e. level spreader or equivalent) lip		
b	Upper edge of Riparian Buffer		
c	Lower edge of Riparian Buffer		
3	Flow to distribution device (one inch per hour storm)		
4	Length of distribution device (i.e. level spreader or equivalent; min. of 13' and max. of 130')		
5	Length of Riparian Buffer (min. of 13' and max. of 130')		
6	Width of Riparian Buffer (parallel to flow; 50' minimum)		
a	Width of grass zone (Zone 1)		
b	Width of forest vegetation zone (Zone 2)		
7	Zone 1 Planting Specifications:		
a	Tree planting density (stems/acre) and diameter breast height (dbh)		
b	Shrub planting density (shrubs/acre)		
8	Zone 2 Planting Specifications:		
a	Grass species (include plugging specifications if applicable)		
9	Is maintenance access provided (to distribution device & riparian buffer)?		



Restored Riparian Buffer

Record of Construction
Engineer's Certification of Completion

Water Resources Department
Stormwater Management Division
2602 S. Elm-Eugene St.
Greensboro, NC 27406
(336) 373-2055

**ENGINEER'S CERTIFICATION OF
STORMWATER CONTROL COMPLETION**

I certify that, pursuant to generally accepted engineering standards in the community, it is my professional opinion that the stormwater control(s) labeled as _____ on this plat (or on name of plat) as recorded in PB _____, PG _____ in the Office of the Guilford County Register of Deeds has been completed in conformance with the plans and specifications approved on _____, has its full design volume available, and is functioning as designed.

P.E. SEAL:

SIGNATURE: _____ DATE: _____