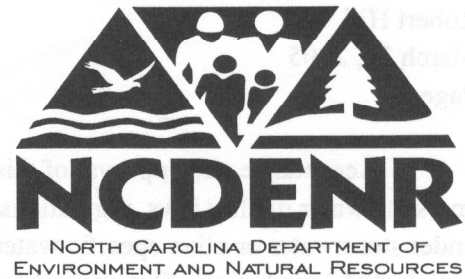


**State of North Carolina
Department of Environment
and Natural Resources
Raleigh Regional Office**

**Michael F. Easley, Governor
William G. (Bill) Ross, Secretary**



DIVISION OF LAND RESOURCES

LETTER OF APPROVAL

March 17, 2005

Robert Hill
7701 Bent Hill Court
Wake Forest, NC 27587

**RE: Project Name: Wind Fall Subdivision
County: Chatham
Submitted by: John Harris
Date Received: 2/25/05; 3/16/05
Date Processing Initiated: 3/16/05
Watershed: Cape Fear #1/03-06-05
New Submittal (X) Revised ()**

Dear Mr. Hill:

This office has reviewed the subject Erosion and Sedimentation Control Plan. We find the plan to be acceptable and hereby issue this letter of approval. If any modifications, performance reservations, or recommendations are applicable, a list is enclosed and is incorporated as a part of this letter of approval. The enclosed Certificate of Approval should be posted at the job site. In addition, it should be noted that this plan approval shall expire three (3) years following the date of approval, if no land-disturbing activity has been undertaken, in accordance with Title 15A, North Carolina Administrative Code (NCAC) 4B.0029.

If any modifications are not incorporated into the plan and implemented in the field, the site will be in violation of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statute (NCGS), 113A-61.1).

15A NCAC 4B.0018(a) requires that a copy of the approved plan be on file at the job site. Also, this letter gives the notice required by NCGS 113A-61.1(a) concerning our right to perform periodic inspections to ensure compliance with the approved plan.

North Carolina's sedimentation pollution control program is performance oriented, requiring protection of the natural resources and adjoining properties. If at any time during this project it is determined that the Erosion and Sedimentation Control Plan is inadequate to meet the requirements of the Sedimentation Pollution Control Act of 1973 (NCGS 113A-51 through 66), this office may require revisions in the plan and its implementation to ensure compliance with the Act.

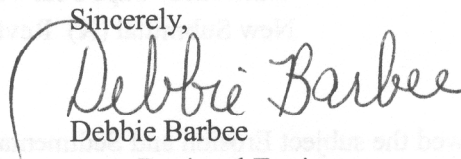
Acceptance and approval of this plan is conditioned upon your compliance with applicable federal and state water quality laws, regulations and rules. This could include the Division of Water Quality under stormwater or other specific water quality standards, and the U.S. Army Corps of Engineers under Article 404 jurisdiction. Our approval does not supersede any other required permit or approval.

Since this project disturbs one or more acres, one such approval relates to the stormwater that will discharge from your project. This runoff is permitted pursuant to the National Pollutant Discharge Elimination System (NPDES) administered in North Carolina by the Division of Water Quality (DWQ). Attached is the General Stormwater NPDES Permit, NCG010000, as revised October 1, 2001, covering your activity. You are responsible for complying with the General Permit requirements and are subject to enforcement by DWQ for any violations of the General Permit.

Please note that this approval is based in part on the accuracy of the information provided concerning financial responsibility. You are requested to file an amended Financial Responsibility Form if any changes become necessary. In addition, it would be helpful if you would notify this office when the proposed land-disturbing activity covered by this plan is initiated.

Your cooperation is appreciated and we look forward to working with you on this project. If there are any questions, please do not hesitate to contact this office.

Sincerely,



Debbie Barbee

Asst. Regional Engineer
Land Quality Section
Raleigh Regional Office

DRB:clm

cc: John Harris, P.E.
Mr. Ken Schuster, P.E., Division of Water Quality



North Carolina Department of Environment and Natural Resources
Raleigh Regional Office

Michael F. Easley, Governor

William G. Ross, Jr., Secretary

DIVISION OF LAND RESOURCES
LETTER OF RECEIPT
March 10, 2005

Robert Hill
7701 Bent Hill Court
Wake Forest, NC 27587

RE: Project Name: Wind Fall Subdivision
County: Chatham
Submitted By: John Harris, P.E.
Date Received: February 25, 2005
Date Processing Initiated: February 25, 2005
Watershed: Cape Fear #1/03-06-05

Dear Mr. Hill:

This office has received an erosion and sedimentation control plan for the subject project as required by the Sedimentation Pollution Control Act of 1973 (Act), North Carolina General Statute (NCGS) 113A-57.

The Act requires that all persons disturbing an area of one or more acres of land must obtain approval of an erosion and sedimentation control plan prior to the commencement of the land-disturbing activity (NCGS 113A-54(d)(4)). The Act further states that this plan must be filed a minimum of 30 days prior to the activity and the approving authority must approve or disapprove the submitted plan within 30 days of receipt of a complete application (Date Processing Initiated). Failure of the approving authority to approve or disapprove the submitted plan within the 30 day period will be deemed approval of the plan. Commencement or continuation of a land-disturbing activity under the jurisdiction of this Act prior to the approval of an erosion and sedimentation control plan is a violation of the Act.

We have performed a preliminary review of your submitted plan and have determined that additional information will be necessary. Enclosed is a checklist indicating items that must be addressed before we can complete the review process. Failure to provide the additional information may result in disapproval of your plan.

We will complete our review of the proposed plan as soon as possible and will notify you concerning our findings. If you have any questions or need additional information, please do not hesitate to contact this office. Your cooperation in this matter is appreciated and we look forward to working with you on this project.

Sincerely,

John L. Holley, Jr., PE, CPESC
Regional Engineer
Land Quality Section

JLH/clm

cc: John Harris, P.E.
enclosure



North Carolina Department of Environment and Natural Resources
Raleigh Regional Office

Michael F. Easley, Governor

William G. Ross, Jr., Secretary

Project Name: Wind Fall

County: Chatham Date: 03/07/05

EROSION AND SEDIMENTATION CONTROL PLAN CHECKLIST

To expedite the review process, a cursory review of your submitted Erosion and Sedimentation Control Plan has been made and has shown the need for additional information as specified below. To meet our review schedule, any additional information should be received by this Regional Office no later than 03/14/05. Failure to meet this schedule may result in disapproval of your plan. Please note that this cursory review notes only obvious omissions in the application and does not infer that all possible application deficiencies have been noted.

LOCATION OF PROJECT:

- ☐ Including roads, streets, watercourses, and other major landmarks or features
- ☐ Show site on USGS Quad & Soils Map

GENERAL SITE FEATURES:

- ☐ Legend; north arrow, plan scale, erosion control measures, etc.
- ☐ Property lines and boundaries of total tract
- ☐ Existing and proposed contours
- ☐ Limit and acreage of disturbed area
- ☐ Planned & existing buildings and elevations
- ☐ Planned & existing road locations and elev.
- ☐ Geologic features; such as streams, lakes, dams, wetlands, springs, rock outcrops, etc.
- ☐ Easements & adjoining property uses
- ☐ Profiles; streets, utilities, lateral ditches, etc.
- ☐ Stockpile locations

BORROW AND / OR WASTE AREAS:

- ☐ If the same person conducts the land -disturbing activity, that borrow/waste activity shall constitute part of the land-disturbing activity, unless the borrow/waste activity is permitted and /or regulated under the Mining Act of 1971, or is a landfill regulated by the Division of Solid Waste Management. If the land-disturbing activity and the related borrow/waste activity are not conducted by the same financially responsible party,

they shall be considered separate land-disturbing activities.

SITE DRAINAGE FEATURES:

- ☐ Drainage features; existing and planned (including off-site areas that drain through the project)
- ☐ Size of sub-watershed (Acres)
- ☐ Culverts & sewers: size and location
- ☐ Soils information (Type, special characteristics, etc.)
- ☐ Name and classification of receiving watercourse or name of municipal operator (where stormwater is discharged)

DESIGN CALCULATIONS:

- ☐ Pre & Post-construction runoff calculations for each outlet from site (at each discharge location)
- ☐ Culverts and storm sewers
- ☐ Open channels; existing & planned (include temp linings)
- ☐ Energy dissipators, (include stone size and dimensions)
- ☐ 1-3 Sediment basins/traps (include dimensions & spillway designs)

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**FINANCIAL RESPONSIBILITY/OWNERSHIP
(FR/O):**

- ☐ Completed, notarized FR/O Form
- ☐ Accurate application fee
- ☐ Certificate of assumed name, if owner is a partnership
- ☐ Deed Book No. and Page No.

VEGETATIVE STABILIZATION:

- ☐ Methods of soil preparation
- ☐ Seed types and rates (temporary & permanent)
- ☐ Fertilizer type and rates
- ☐ Mulch and rates

OTHER INFORMATION:

- ☐ 4-6 Location of measures, temporary & permanent
- ☐ Construction details of temporary & permanent measures
- ☐ Maintenance requirements of all measures
- ☐ Contact persons for maintenance of measures

NARRATIVE AND CONSTRUCTION SEQUENCE:

- ☐ Nature and purpose of the project
- ☐ Construction sequence as it relates to erosion control, including provisions for installation of critical measures prior to the initiation of the land-disturbing activity; all maintenance measures; and removal of measures after areas they serve have been permanently stabilized.

OTHER INFORMATION:

1) It appears some of the basins do not meet the surface area requirements [i.e., SB-19, SA required is 2,268 ft³ and only 1,880 ft³ is provided (40'x47')]

2) On the plan, SB-1 shows dimensions of 5x24x3 instead of 15x24x3.

3) SB-13 and SB-15 are not shown on the plan. There are 2 SB-22 shown on the plan (pgs 14 & 15). The SB on pg 15 at ditch MM should be labeled SB-15 34x25x3.

4) No sediment and erosion control measures were shown for the utility work along Big Woods Road.

5) Due to the steep slopes, it appears additional check dams will be needed. Please see the attached construction detail that shows proper check dam spacing.

6) There needs to be a measure (i.e., check dam) before the inlet for pipe #8 at the end of ditch S1.

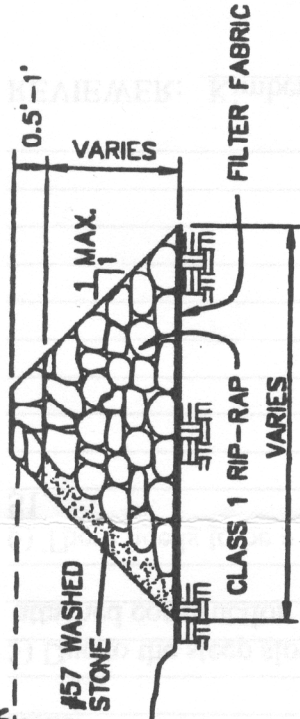
REVIEWER: Kimberly Summers (kimberly.summers@ncmail.net)

TOP ELEVATION OF STORMWATER

DESIGN OF SPILLWAYS

DRAINAGE AREA (ACRES)	WEIR LENGTH ¹ (FT)
1	4.0
2	6.0
3	8.0
4	10.0
5	12.0

¹ DIMENSIONS SHOWN ARE MINIMUM



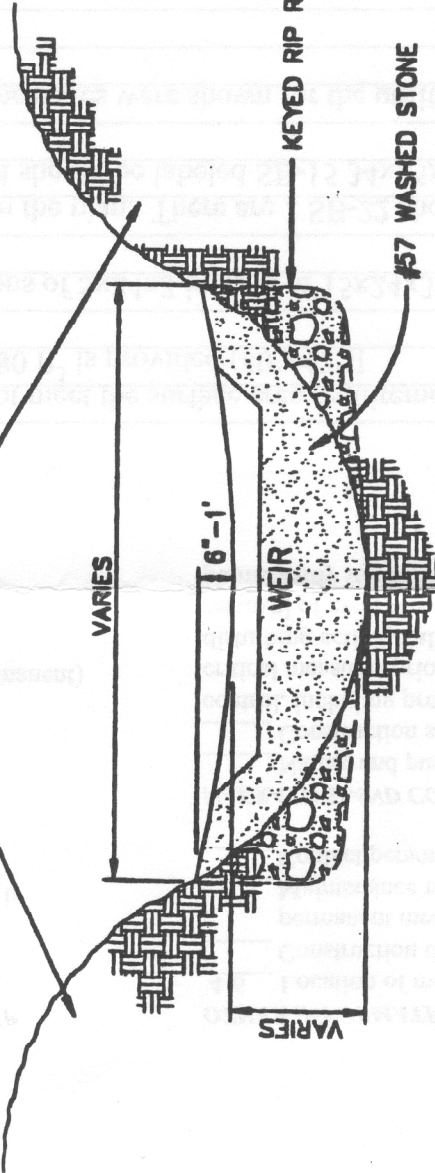
SIDE VIEW

NOTE:

HEIGHT & WIDTH DETERMINED BY
EXISTING TOPOGRAPHY AND
SEDIMENT STORAGE REQUIRED.

KEY RIP RAP INTO THE DAM
FOR STABILIZATION.

EXISTING SLOPES



FRONT VIEW

REVISIONS			
DATE	DESCRIPTION	M.H.D.	G.M.A.
10/88	NOTE ADDITION		
4/88	ADD SPILLWAY CHART		

EXISTING SLOPE STEP SEQUENCE

CHECK DAM