

# FOREST CONSERVATION WORKSHEET

Acres (1/100 ac.)	
Net Tract Area	
A. Total Tract Area	6.84
B. Area Within 100 Year Floodplain	0
C. Other deductions	0
D. Net Tract Area	6.84
Land Use Category Residential Rural Med. Density	
E. Afforestation Minimum (20% x D)	1.37
F. Conservation Threshold (25% x D)	1.71
Existing Forest Cover	
G. Existing Forest on Net Tract Area	0
H. Forest Area Above Conservation Threshold Breakeven Point	0
I. Forest Retention Above Threshold with no Mitigation	NA
J. Clearing Permitted without Mitigation	0
Proposed Forest Clearing	
K. Forest Areas to be Cleared	0
L. Forest Areas to be Retained	0
Planting Requirements	
M. Reforestation for Clearing Above Threshold	0
N. Reforestation for Clearing Below the Threshold	0
P. Credit for Retention Above Conservation Threshold	0
Q. Total Reforestation Required	0
R. Total Afforestation Required	1.37
S. Total Reforestation and Afforestation Requirement	1.37

FOREST CONSERVATION EASEMENT TABLE	
EASEMENT 1	1.37 AC
ALL AFFORESTATION	
TOTAL	1.37 AC
ALL AFFORESTATION	

AFFORESTATION AREA 1 1.37 Ac • 350 stems/acre = 480 stems					
Qty	Botanical Name	Common Name	Min. Size	Spacing	Notes
60	<i>Acer negundo</i>	Box Elder	2-3' whip	11' o.c.	container
90	<i>Acer rubrum</i>	Red Maple	2-3' whip	11' o.c.	container
90	<i>Nyssa sylvatica</i>	Black Gum	2-3' whip	11' o.c.	container
90	<i>Platanus occidentalis</i>	Sycamore	2-3' whip	11' o.c.	container
90	<i>Quercus palustris</i>	Pin Oak	2-3' whip	11' o.c.	container
60	<i>Carpinus caroliniana</i>	Ironwood	2-3' whip	11' o.c.	container

### Forest Conservation Narrative

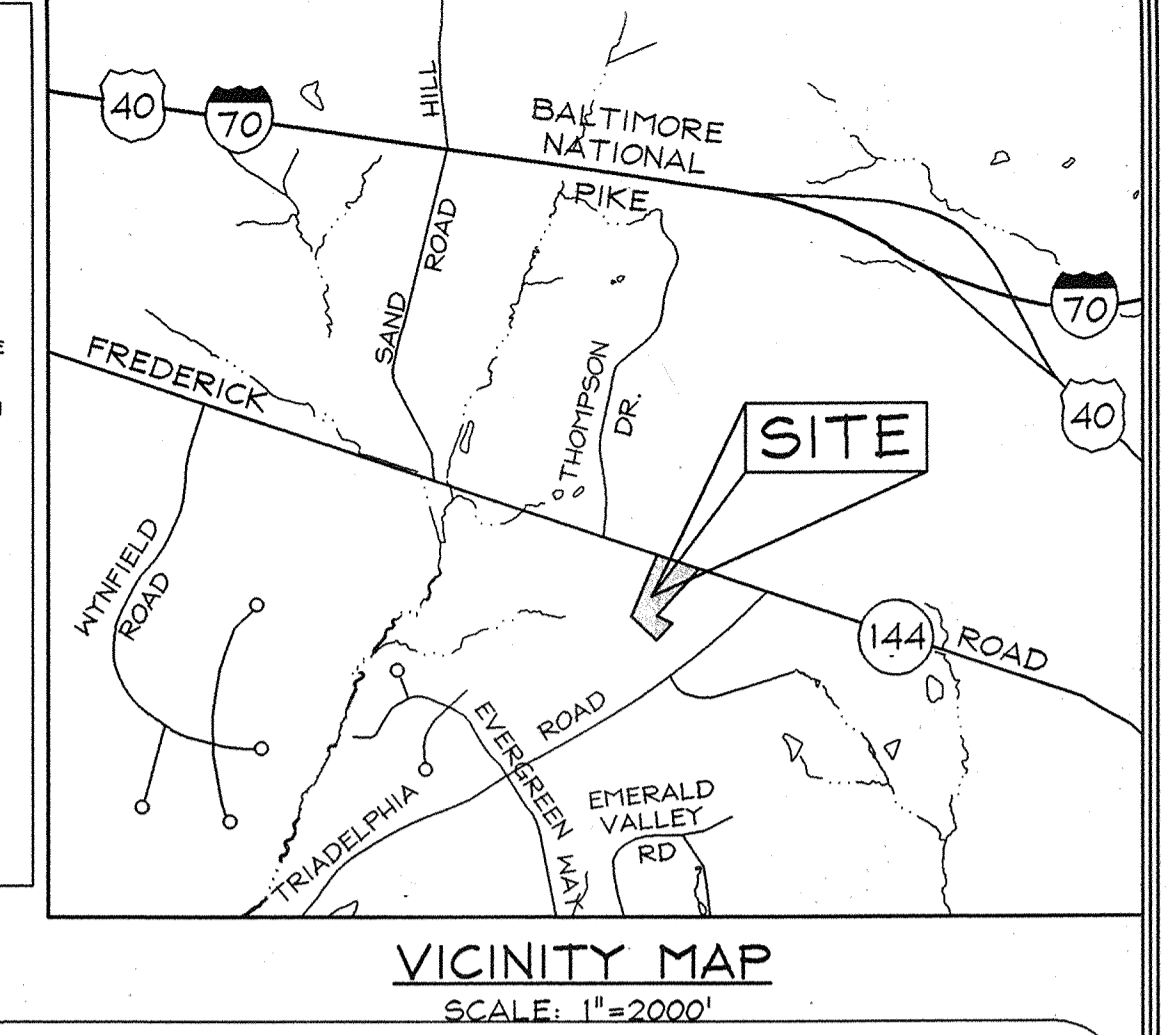
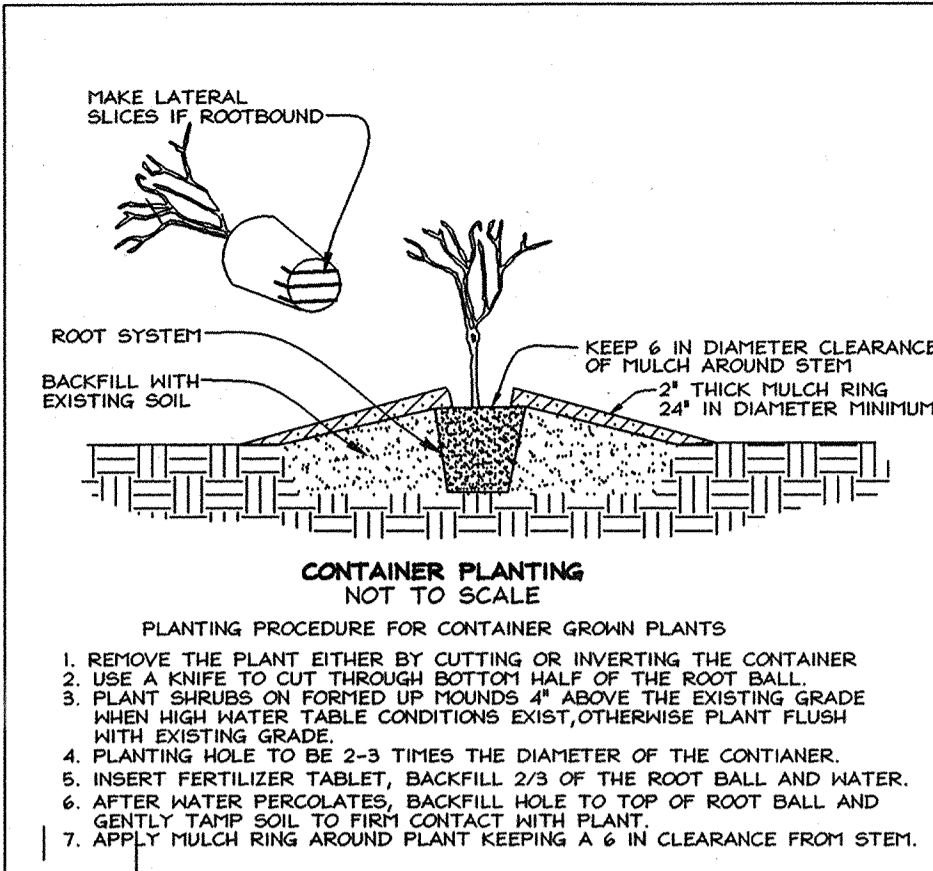
This Forest Conservation Plan was prepared in accordance with the Howard County Forest Conservation Manual, Guidelines for Rural Cluster Subdivisions. As no Preservation Parcel of greater than 3 acres exists on site, Option B will be utilized wherein the entire site is included in the calculations.

The existing site consists of 6.84 acres with no floodplain. There is no existing forest on site. The afforestation planting requirement is 1.37 acres. This will be placed onsite within a Forest Conservation Easement of 1.37 acres located on Preservation Parcel B.

The Forest Conservation Easement will be planted with 350 stems/acre of 2-3' containerized whip stock for the 1.37 acres of afforestation. *(with tree shelters)*

### AFFORESTATION AREA MONITORING NOTES

- Monthly visits during the first growing season are to assess the success of the plantings and to determine if supplemental watering, pest control or other actions are necessary. Early spring visits will document winter kill and autumn visits will document summer kill.
- The minimum survival rate shall be 75% of the total number of trees planted per acre at the end of the two year maintenance period. Wild tree seedlings from natural regeneration on the planting site may be counted up to 50% toward the total survival number if they are healthy native species at least 12 inches tall. At the end of the first growing season the survival rate shall be assessed and if it is below 75% replacement plantings shall be made.
- Survival will be determined by a stratified random sampling of the plantings. The species composition of the sample population should be proportionate to the amount of each species in the entire planting to be sampled.
- Effective monitoring will assess plant survivability during the first growing season and make recommendations for reinforcement plantings if required at that time.



### TYPICAL FOREST TREE DISTRIBUTION PATTERNS

RANDOM

NONRANDOM

RANDOM

NONRANDOM

**POSITIVE ASSOCIATION**      **NEGATIVE ASSOCIATION**

★ SPECIES 1      ⊗ SPECIES 2

**NOTE:** Naturally occurring populations of trees tend to be found in informal groupings. A cluster of trees is really a mosaic of different species groups. The objective of an afforestation/reforestation plan is to select the appropriate species and distribution pattern for a chosen site that mimic natural patterns.

**AGGREGATE DISTRIBUTION DRIFT**

**NOTE:** When used, plant cluster type groupings that taper or feather out along the edges. Clusters often appear as elongated or tear drop shapes.

**MIXING TRANSPLANT STOCK**

⊗ Locate larger trees (B4B or container grown) or transplant stock at the perimeter of reforestation/afforestation planting of whips, seedling ground stock.  
 — Protective fencing  
 ★ Smaller Stock

Source: Adapted from Forest Conservation Manual, 1991.

PLANTING DISTRIBUTION PATTERNS      FIGURE 3.8.2

Reforestation and Afforestation Area Protection Signage

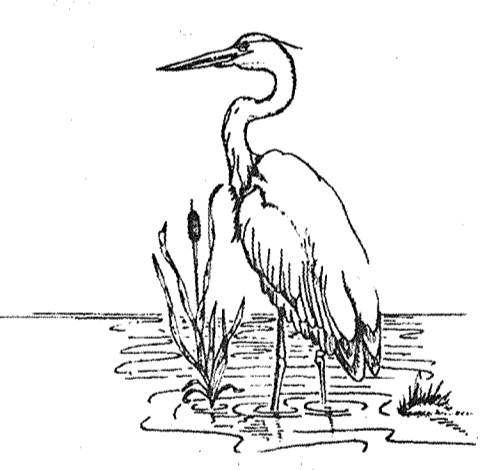
Min. 11"

Forest Conservation Area

REFORESTATION PROJECT

Min. 15"

Trees for Your Future



EXPLORATION RESEARCH, INC.  
 ENVIRONMENTAL CONSULTANTS

8311 FORREST STREET  
 ELICOTT CITY, MARYLAND 21041  
 TEL: (410) 750-1150 FAX: (410) 750-7350

### LEGEND

Existing contour      - - - - -

Existing spot elevation      - - - - -

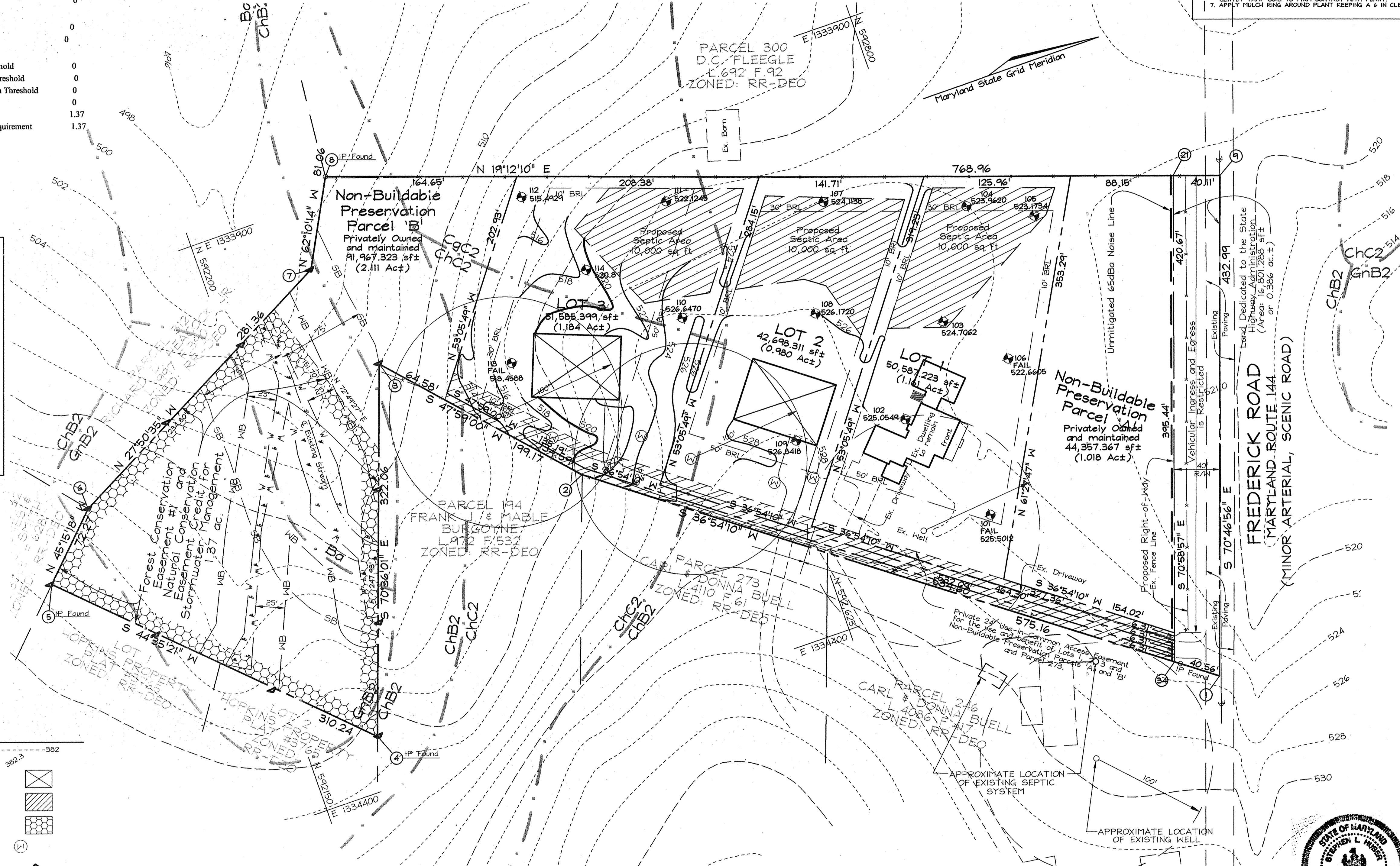
Denotes proposed house      [Symbol]

Prop. septic reserve area      [Symbol]

Forest conservation easement      [Symbol]

Prop. well area      [Symbol]

Forest Conservation Area Sign      [Symbol]



**OWNER**  
 John A. and Kathryn M. Alascio  
 11805 Frederick Road  
 Ellicott City, Maryland 21042

**OWNER/DEVELOPER**  
 GREENFIELD HOMES, Inc.  
 6656 Luster Drive  
 Highland, Maryland 20777

Surety in the amount of \$29,839.00 will be posted with the developers agreement. (1.37 ac. = 59,677 s.f. @ \$0.50 / s.f.)

### SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	SOIL GROUP
Es	BAILE SILT LOAM	D
Ch2	CHESTER SILT LOAM, 3 TO 1 PERCENT SLOPES, MODERATELY ERODED	B
ChC2	CHESTER SILT LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED	B
CgC2	CHESTER GRAVELLY SILT LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED	B
GnB2	GLENNVILLE SILT LOAM, 3 TO 9 PERCENT SLOPES, MODERATELY ERODED	C

APPROVED: Howard County Department of Planning and Zoning

*[Signature]* 7/29/04  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION      DATE

*[Signature]* 7/29/04  
 CHIEF, DIVISION OF LAND DEVELOPMENT      DATE

**FSH Associates**  
 Engineers Planners Surveyors  
 8318 Forest Street Ellicott City, MD 21043  
 Tel: 410-750-2251 Fax: 410-750-7350  
 E-mail: FSHAssociates@cs.com



### FOREST CONSERVATION PLAN

#### MEADOW SPRINGS

LOTS 1, 2 & 3, and NON-BUILDABLE PRESERVATION PARCELS 'A' and 'B'

TAX MAP 16 GRID 14      PARCEL 25  
 3RD ELECTION DISTRICT      HOWARD COUNTY, MARYLAND

DESIGN BY: PS  
 DRAWN BY: AB  
 CHECKED BY: SLH  
 SCALE: 1"=50'  
 DATE: Jul. 20, 2004  
 H.O. No.: 3087  
 SHEET No. 1 OF 1

F0202