NOTES:

- 1. THE PROPERTY IS ZONED: R-20
- 2. THE TOPOGRAPHY SHOWN HEREON WAS TIFLD-RUN BY SHANABERGER & LANE IN JANUARY OF 2004.
- 3. THIS PROPERTY IS SERVED BY EXISTING PUBLIC WATER AND SEWER.
- 4. EXISTING HOUSE SHOWN HEREON HAS BEEN FIELD-LOCATED.
- 6. DESIGNATES SOIL TYPE BOUNDARY

		SOIL TYPES	
NAME	HYDRIC	HYDRIC INCLUSIONS	SLOPES < 15% WITH HIGH EROSION POTENTIAL
Co	yes	Hatboro	
GnB2			
M1B2			
M1D2	-		15-25%, moderately erode
M1E			25-45% slopes

FOREST	CONSERVATION	EASEMENT	TABL
EASEMEN	TYPE	AREA (ACRES

EASEMENT	TYPE	AREA (ACRES)			
İ	RETENTION NON-CREDITED	026 045			
TOTAL		0.71			

FOREST CONSERVATION WORKSHEET

Net Tract Area	Acres
A. Total Tract Area	2.70
B. Area Within 100 Year Floodplain	1.37
C. Other deductions	
D. Net Tract Area	1.33
Zoning Use Category: RESIDENTIAL-SUBURBAN	
Land Use Category	
E. Afforestation Minimum (15 $\% imes exttt{D}$)	0.20
F. Conservation Threshold (20 % x D)	0.27
Existing Forest Cover	
G. Existing Forest on Net Tract Area	0.60
H. Forest Area Above Conservation Threshold	0.33
Breakeven Point	
I. Forest Retention Above Threshold with no	0.34
Mitigation	
J. Clearing Permitted without Mitigation	0.26
Proposed Forest Clearing	
K. Forest Areas to be Cleared	0.34
L. Forest Areas to be Retained	0.26
Planting Requirements	
M. Reforestation for Clearing Above Threshold	0.08
N. Reforestation for Clearing Below the Threshold	0.02
P. Credit for Retention Above Conservation Threshold	0
Q. Total Reforestation Required	0.10
R. Total Afforestation Required S. Total Reforestation and Afforestation Requirement	0 0.10

SPECIMEN TREES

Forest Conservation Narrative

Conservation Act of 1991.

retained for credit.

the greatest extent possible.

paid on 9/16/05 as receipt No. 09011.

This Forest Conservation Plan complies with the Howard

The site consists of 2.70 Ac. of which 1.37 Ac. are in

the floodplain. The net tract area of 1.33 Ac. contains

to the maximum extent possible, resulting in retention

0.60 Ac. of forest. These woodlands have been preserved

within a Forest Conservation Easement of 0.26 Ac. This

is retained to ensure the easement meets the minimum

criteria for forest easements. This additional area is not

Specimen trees will be retained and protected to

(4,356 sq.ft.@\$0.50/s.f.). There exist no suitable

For the outstanding reforestation obligation of 0.10 Ac

we are requesting a fee-in-lieu payment of \$2,178.00

onsite or offsite planting locations. The fee-in-lieu was

easement will include forested floodplain of 0.45 Ac, which

County Manual of 1998 and the Maryland Forest

Key	Name	Scientific Name	Size	Condition	Retained
ST-I	American Beech	Fagus grandifolia	30"	Poor	YES
ST-2	Tulip Poplar	Liriodendron tulipifera	56"	Poor	YES
L					

FOREST STAND ANALYSIS TABLE

KEY	TYPE OF COMMUNITY	AREA	SOIL INFORMATION			EXISTING		STAND CHARACTERISTICS			FOREST AREA	
			SOIL TYPE	TYPICAL FOREST COVER	WOODLAND SUITABILITY INDEX	HABITAT VALUE	VEGETATION (Type and approx. %)	N I	SIZE AVG. DIAM	AGE	GENERAL CONDITIONS	FOREST AREA IN SENSITIVE ENVIRONMENTS
FI	Mixed Hardwood	1.10 AC	Со	Mixed Hardwoods	75-84	GOOD	Boxelder 80 Black Walnut 20		6-30+ in. 2-24 in.	50±	od	All, in stream buffer, stream channel and floodplain
F2	Mixed Hardwood	0.87 AC	MEI	Mixed Upland Hardwoods	65-74	FAIR	Tulip 60 Poplar Black	0%	6-30+ in.	100±	Good	0.42 Ac on Steep Slopes
			MID2	Mixed Upland Hardwoods	65-74	FAIR			6-12 in. 4-10 in.			0.27 Ac in floodplain
			MIC2	Mixed Upland Hardwoods	65-74	FAIR						
LI	Lawn	0.73 AC	N/A	N/A	N/A	N/A			N/A	N/A	Good	

FOREST STAND NARRATIVE

OPEN SPACE

STEVENS FOREST."

SHEET 4 OF 6

(P.B. 18/19)

PROPOSED

LOT 3

(OPEN SPACE TO BE

TO HOWARD COUNTY)

SECTION 5, AREA 2/9

"VILLAGE OF OAKLAND MILE, S, / M 1

F1 - This forest stand occurs within the floodplain of the Patuxent River. The 1.10 Acre floodplain forest is dominated by the following species trees: boxelder (Acer negundo) and black walnut (Juglans nigra) in the overstory with spicebush (Lindera benzoin) as the dominant shrub. The herbaceous layer is dominated by Japanese honeysuckle (Lonicera japonica). The stand is in good health without significant invasive infestation. This stand would be considered a high priority for retention.

F2 - This forest stand occurs within the upland area of the site. The 0.87 Acre upland forest is dominated by the following overstory trees: tuliptree (Liriodendron tulipifera), black locust (Robinia psuedoacacia), and eastern red cedar (Juniperus virginiana). The understory is dominated by: ironwood (Carpinus caroliniana), spicebush (Lindera benzoin), and multiflora rose (Rosa multiflora). The herbaceous layer is dominated by English ivy (Hedera helix) and Japanese honeysuckle (Lonicera japonica). This stand appears to be in good health. The two specimen trees are found within this stand. The areas of steep slopes and floodplain, as well as the specimen trees would be high priority for retention. Other areas would be of lesser priority.

L1 - The remainder of the site is the lawn area surrounding the existing buildings including scattered trees and paving.

Forest Tree Protection and Management Notes

1. Tree protection devices shall be installed prior to any grading or land

clearing.

2. After the boundaries of the retention areas have been staked and flagged and before any disturbance has taken place a pre-construction meeting with

the Howard County Inspector is required. 3. Provide maintenance to tree protection devices and signage to maintain

their integrity throughout the duration of the project.

4. Attachment of signs to tree protection devices to maintain their integrity. throughout the duration of the project.

5. Any significant changes made to the Forest Conservation Plan shall be made with the prior approval if the Howard County Dept. Of Planning

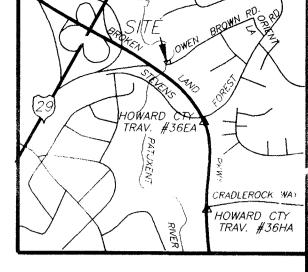
6 No burial of discarded material is permitted within the Forest Conservat and Planting areas.

7. No open burning within 100 feet of wooded areas is permitted. 8. Post construction phase.

a. Inspect existing trees around the perimeter of the site for signs of root or trunk damage and excessive soil compaction. b. Remove dead or dying trees and evaluate for hazard tree removal. + c. All temporary forest protection devices will be removed after construction Following completion of construction, prior to use, the county inspector

* A licensed Arborist or Forester should be retained for this service as recoded.

shall inspect the entire site for compliance with this Forest Conservation.



VICINITY MAP SCALE: 1"=2000"

Soil Protection Zone Notes

I. The Soil Protection Zone shall include all areas contained inside the Limit of Disturbance.

2. Where possible, the Soil Protection Zone shall extend to the drip line of specimen trees. For other groups of trees, the zone shall be the drip line or 40% of the height of the tree, whichever is greater.

3. No construction activity is permitted within the Soil Protection Zone.

grading has taken place in the vicinity of the Soil Protection Zone, root pruning shall be implemented per Root Pruning detail, shown on this plan. 5. Root pruning shall occur prior to the

4. If soil has been compacted or

beginning of construction. 6. Where the Soil Protection Zone must encroach inside the Critical Root Zone of a tree, soil disturbance shall be mitigated with vertical mulching, radial trenching, or another method approved by the ERI Forest Conservation Professional.

7. Prior to construction, the Limits of Disturbance shall be marked and the ERI Professional shall determine which trees will need preventative treatment or removal.

8. Tree maintenance and removal shall be undertaken by a qualified MD Tree Expert to ensure damage to surrounding trees is minimized. 9. Brush and limbs removed for

construction shall be chipped and spread at the edge of the Soil Protection Zone to a dep 1 of 6 inches. This shall occur outside the Sci! Protection Zone where compaction could impact otherwise

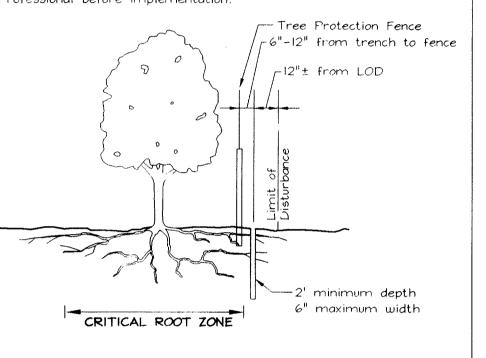
unprotected Critical Root Zone.

LEGEND

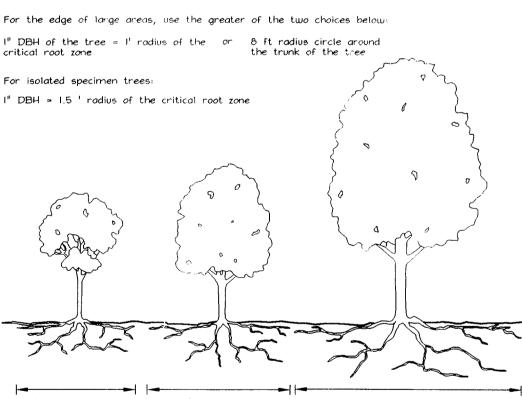
ROOT PRUNING

Retention areas shall be set prior to construction ?. Boundaries of retention areas shall be flagged, and location of trench shall be specified by ERI Qualified Professional 3. Roots shall be cut cleanly with root pruning equipment. Where roots >1" are found, trenching shall be done by air spade or hand tools. Roots II" shall be cut with a hand saw. 4. Trench shall be immediately tackfilled with soil removed or high

5. Any other techniques shall be approved by the ERI Qualified Professional before implementation.



CRITICAL ROOT ZONE



For isolated specimen trees:

6" DBH TREE 8' RADIUS CRZ 30" DBH TREE 45' RADIUS CRZ

.

Non-Credited Floodplain Retention Steep Slopes - > 25%

Protection Signage

Forest Stand Boundary

Forest Retention Area

Forest Conservation Easement

Forest Conservation Easement

N 558500

ELLICOTT CITY, MD. 21043

PHONE: 410-461-9563

FAX: 410-461-9693

N 558900

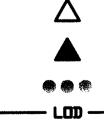
HELEN M. RIVERIA

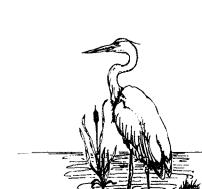
L.1824/F.125

Tree Protection Fence Forest Conservation Easement

Specimen Tree Protection Signage

Soil Type Boundary Limit of Disturbance



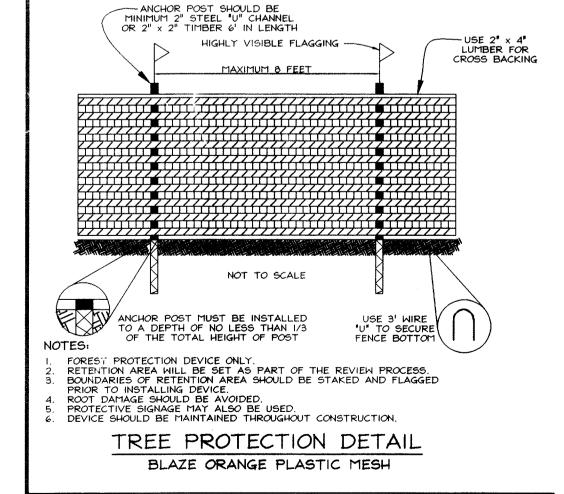


EXPLORATION RESEARCH, INC. ANDSCAPE ARCHITECT

COMBINED FOREST STAND DELINEATION AND FOREST CONSERVATION PLAN VILLAGE OF OAKLAND MILLS. SECTION 5, AREA 2 LOTS 1,2 & OPEN SPACE LOT 3 DUGGAN PROPERTY

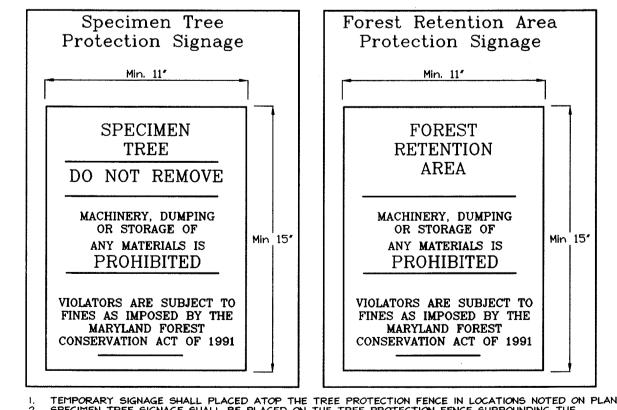
(A RESUBDIVISION OF LOT 217, VILLAGE OF OAKLAND MILLS STEVENS FOREST, P.B.18/19) 6TH ELECTION DISTRICT, HOWARD COUNTY, MD TAX MAP 36 GRID 8 PARCEL P/O 315 ZONED: R-20 SCALE: 1"=50' SEPTEMBER 22, 2005

PREVIOUS DPZ FILES: P-68-01,F-69-023,



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION



TEMPORARY SIGNAGE SHALL PLACED ATOP THE TREE PROTECTION FENCE IN LOCATIONS NOTED ON PLAN SPECIMEN TREE SIGNAGE SHALL BE PLACED ON THE TREE PROTECTION FENCE SURROUNDING THE SPECIMEN TREE ADJACENT TO THE NEW LOT

ALL PERMANENT TREE PROTECTION SIGNS SHALL BE PLACED ON METAL 'T' POSTS OR PRESSURE TREATED WOOD POLES. NO ATTACHMENT OF SIGNS TO TREES IS PERMITTED.

TREE PROTECTION SIGNAGE NOT TO SCALE

SHEET 1 OF 1 FDP-65-A