

Forest Tree Protection and Management Notes

- Tree protection devices shall be installed prior to any grading or land clearing.
- 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.
- Provide maintenance to tree protection devices and signage to maintain their integrity throughout the duration of the project.
- Attachment of signs to tree protection devices to maintain their integrity throughout the duration of the project.
- Any significant changes made to the Forest Conservation Plan shall be made with the prior approval of the Howard County Dept. Of Planning and Zoning.
- No burial of discarded material is permitted within the Forest Conservation and Planting areas.
- No open burning within 100 feet of wooded areas is permitted.
- Post construction phase:
 - Inspect existing trees around the perimeter of the site for signs of root trunk damage and excessive soil compaction.
 - Remove dead or dying trees and evaluate for hazard tree removal.
 - All temporary forest protection devices will be removed after construction.
 - Following completion of construction, prior to use, the county inspector shall inspect the entire site for compliance with this Forest Conservation Plan.

* A licensed Maryland Tree Expert should be retained for this service as needed.

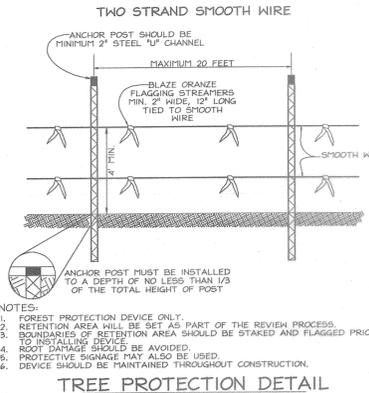
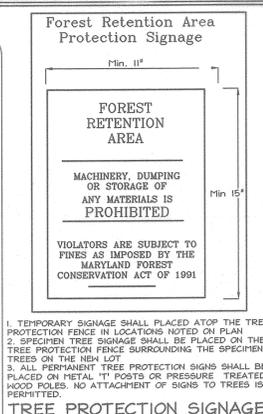
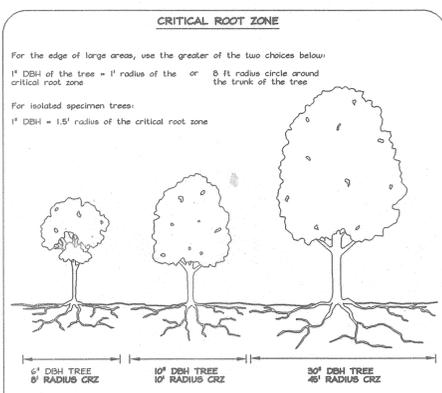
Forest Conservation Narrative

This Forest Conservation Plan complies with Section 16.1200 of the Howard County code, the Howard County Forest Conservation Manual of 1998 and the Maryland Forest Conservation Act of 1991.

The site consists of 7.06 Ac, with 0.01 Ac of floodplain for a net tract of 7.05 Ac. There is 2.06 Ac. of forest on site which will be preserved to the greatest extent possible. One forest conservation easement will be created to retain the forest in perpetuity, per waiver WP-06-008 which will allow the creation of forest conservation easements on lots less than 10 acres. Per the conditions of the waiver, the existing driveway shall be removed and the area allowed to regenerate naturally. Additionally a small area of unforested area in the northeast corner of the site will be left to regenerate within the easement. Total easement area is 2.25 Ac. with 1.87 Ac of retention and 0.38 Ac of uncredited natural regeneration and floodplain area. The retention area exceeds the break-even point of 1.82 Ac, so no further mitigation is required.

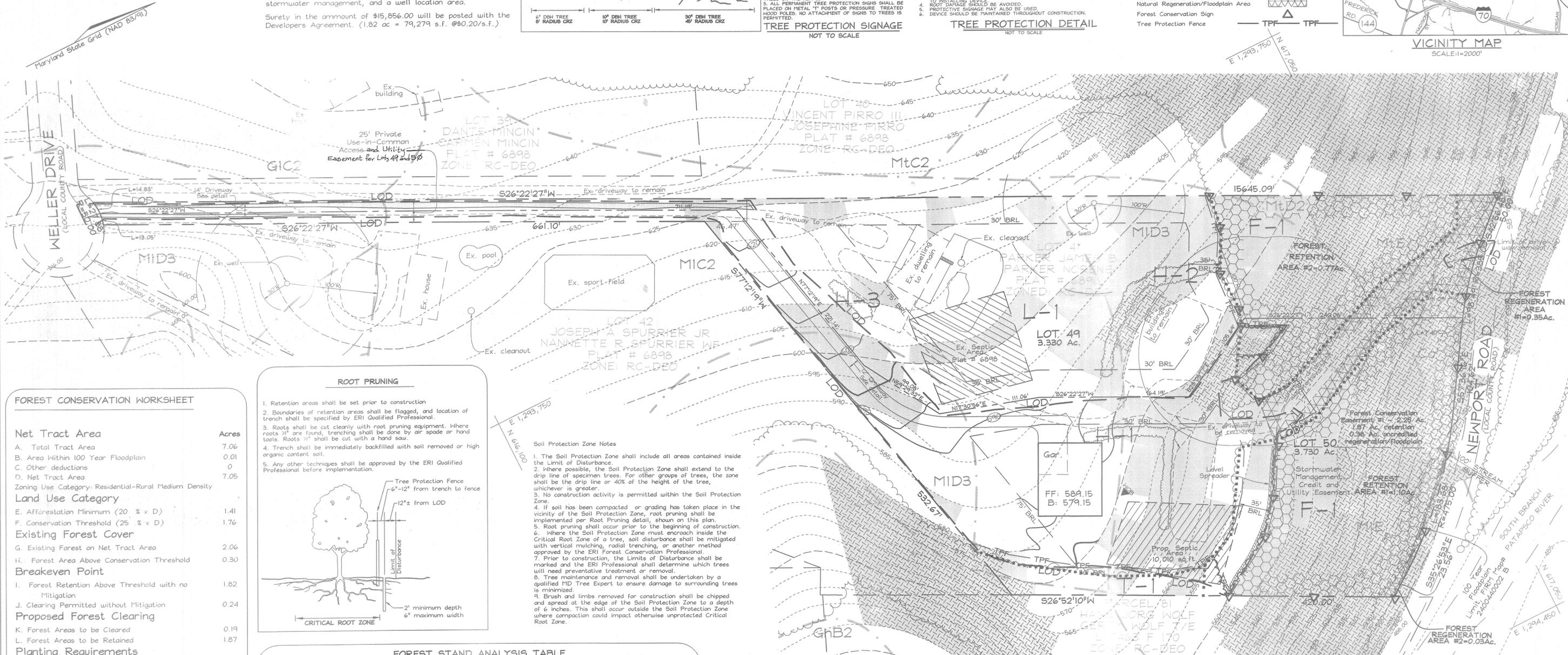
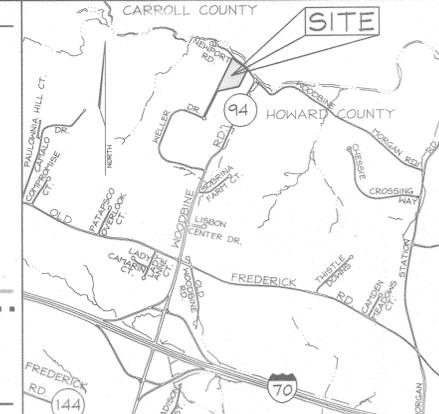
Clearing is necessary to provide a level-spreading device for stormwater management, and a well location area.

Surety in the amount of \$15,856.00 will be posted with the Developers Agreement. (1.82 ac = 79,279 s.f. @ \$90.20/s.f.)



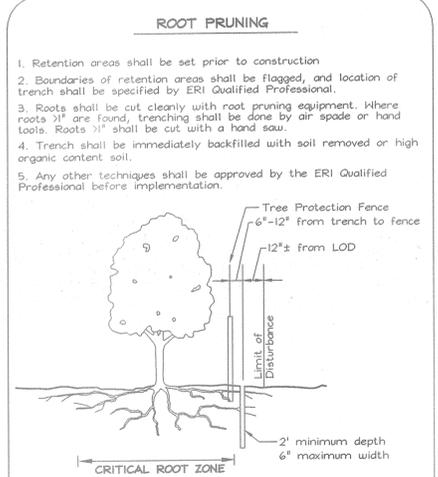
LEGEND

- Existing Contour
- Existing Treeline & Proposed Treeline
- Proposed Septic Easement
- Existing Septic Area
- Proposed House
- Steep Slopes (15-25%)
- Steep Slopes (Greater Than 25%)
- Proposed Well Area
- Soil Boundary
- Forest Stand Boundary
- Forest Conservation Easement Retention Area
- Forest Conservation Easement Natural Regeneration/Floodplain Area
- Forest Conservation Sign
- Tree Protection Fence



FOREST CONSERVATION WORKSHEET

Net Tract Area	Acres
A. Total Tract Area	7.06
B. Area Within 100 Year Floodplain	0.01
C. Other deductions	0
D. Net Tract Area	7.05
Zoning Use Category: Residential-Rural Medium Density	
Land Use Category	
E. Afforestation Minimum (20 % x D)	1.41
F. Conservation Threshold (25 % x D)	1.76
Existing Forest Cover	
G. Existing Forest on Net Tract Area	2.06
H. Forest Area Above Conservation Threshold Breakeven Point	0.30
I. Forest Retention Above Threshold with no Mitigation	1.82
J. Clearing Permitted without Mitigation	0.24
Proposed Forest Clearing	
K. Forest Areas to be Cleared	0.19
L. Forest Areas to be Retained	1.87
Planting Requirements	
M. Reforestation for Clearing Above Threshold	0.05
N. Reforestation for Clearing Below the Threshold	0
P. Credit for Retention Above Conservation Threshold	0.11
Q. Total Reforestation Required	0
R. Total Afforestation Required	0
S. Total Reforestation and Afforestation Requirement	0



Soil Protection Zone Notes

- The Soil Protection Zone shall include all areas contained inside the Limit of Disturbance.
- 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.
- No construction activity is permitted within the Soil Protection Zone.
- If soil has been compacted or 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.
- Root pruning shall occur prior to the beginning of construction.
- 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.
- Prior to construction, the Limits of Disturbance shall be marked and the ERI Professional shall determine which trees will need preventative treatment or removal.
- Tree maintenance and removal shall be undertaken by a qualified MID Tree Expert to ensure damage to surrounding trees is minimized.
- Brush and limbs removed for construction shall be chipped and spread at the edge of the Soil Protection Zone to a depth of 6 inches. This shall occur outside the Soil Protection Zone where compaction could impact otherwise unprotected Critical Root Zone.

FOREST STAND ANALYSIS TABLE

KEY	TYPE OF COMMUNITY	AREA (Acres)	SOIL INFORMATION			EXISTING VEGETATION (Type and approx. %)	STAND CHARACTERISTICS			FOREST AREA IN SENSITIVE ENVIRONMENTS		
			SOIL TYPE	TYPICAL FOREST COVER	WOODLAND SUITABILITY INDEX		HABITAT VALUE	SIZE	AGE		GENERAL CONDITIONS	
F1	Forest	2.06	MIE MID2 MIE	Mixed Upland Hardwood	65-74 Oaks 55-64 Oaks	Fair-Poor	Tulip Poplar Black Cherry Red Maple Black Oak Hickory Green Ash	50% 30% 15% 2% 2% 1%	18-24" 6-16" 6-12" 6-10" 6-12" 6-10"	75-110	Fair, Invasives in Understory	0.1 AC in Sincery Buffer; 1.4 AC on Steep Slopes>25%; and 0.01 AC in Floodplain.
H1	Hedgerow (White Pines)	0.04										
H2	Hedgerow (White Pines)	0.05										
H3	Hedgerow (White Pines)	0.01										
T-1	Treegrass (Forest edge)	0.14										
L1	Lawn with Scattered Trees	4.76										

Forest Stand Delineation Narrative

This Forest Stand Delineation was prepared in accordance with the Howard County Forest Conservation Manual.

F-1: This is a mixed uneven aged hardwood forest composed of mid-successional Red Maple, Tulip Poplar and Black Cherry. It has an Oak and Hickory component, which are late successional in the dominant canopy. The understory is dominated by invasives including Winged Euonymus, with smaller quantities of spicebush and arrowwood. This stand is a high priority retention where slopes exceed 25%. There are no specimen-size trees on the property.

FOREST CONSERVATION EASEMENT TABLE

EASEMENT	TYPE	AREA (ACRES)
1	Retention	1.87
	Natural Regeneration/Floodplain (no credit)	0.38
TOTAL		2.25

OWNER/DEVELOPER
James B. & Norene Parker
745 Weller Drive
Mount Airy, Maryland 21771-3442

FOREST STAND DELINEATION AND FOREST CONSERVATION PLAN PATAPSCO OVERLOOK LOTS 49 AND 50

TAX MAP 2 GRID 18 4TH ELECTION DISTRICT PARCEL 227 HOWARD COUNTY, MARYLAND



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APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
12/5/05
12/2/05



SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	SOIL GROUP
Co	Codorus silt loam	C
GIC2	Glendale loam, 8 to 15 percent slopes, moderately eroded	B
MIC2	Manor loam, 8 to 15 percent slopes, moderately eroded	B
MID3	Manor loam, 15 to 25 percent slopes, severely eroded	B
MIE	Manor loam, 25 to 45 percent slopes	A
MID2	Mt. Airy channery loam, 15 to 25 percent slopes, moderately eroded	A
MIE	Mt. Airy channery loam, 25 to 45 percent slopes	A



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