

**MANAGEMENT NOTES FOR FOREST AREAS**

- All proposed activities shall adhere to the conditions, schedules and terms of an approved sediment control and erosion plan.
- After the boundaries of the disturbed area have been staked and flagged and before any disturbance has taken place on-site, a preconstruction meeting at the construction site shall take place. The developer, contractor or project manager, and appropriate County inspectors shall attend.
- Tree protection for all retained areas and other protected forest or tree resources:
  - All retention areas within 50 feet of proposed construction activities shall be protected by highly visible, well anchored temporary protection devices (silt fence, blaze orange plastic mesh, or two-wire fence with orange flagging).
  - All protection devices shall be in place prior to any grading or land clearing.
  - All protection devices shall be properly maintained and shall remain in place until construction has ceased.
  - Attachment of signs, fencing or other objects to trees is prohibited.
  - No equipment, machinery, vehicles, materials or excessive pedestrian traffic shall be allowed within protected areas.
- If the critical root zone (see detail) is affected by construction activities such as grade change, digging for foundations and roads or utility installation:
  - Prune roots with a clean cut using proper pruning equipment (see root pruning detail).
  - Water and fertilize as needed.
- During construction phase, monitor and correct condition of retained trees for: soil compaction, root injury, flood conditions, drought conditions and other stress signs.
- Post-Construction Phase:
  - Inspect existing trees around the perimeter of disturbed limits for evidence of soil compaction, root injury, limb injury, or other stress signs and correct with proper management techniques such as root or limb pruning, soil aeration, fertilization, crown reduction or watering. Inspection and evaluation shall be performed by a licensed arborist.
  - Inspect for dead or dying trees or limbs which may pose safety hazard and remove.
  - No burial of discarded materials will occur onsite within the conservation areas.
  - No burning within 100 feet of wooded area.
  - All temporary forest protection structures will be removed after construction.
  - Following completion of construction, prior to use, the County Inspector shall inspect the entire area.

**Forest Conservation Narrative**

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

The site consists of 13.03 Ac. on two lots from a previous subdivision. The site contains 6.35 Ac. of forest. These woodlands will be preserved to the maximum extent possible utilizing retention on lots greater than 60,000 s.f. The on-lot retention will total 3.88 Ac. as shown, which is enough to meet the break even point. We do not anticipate that the lots will be cleared any more than is necessary; limits of disturbance reflect the maximum that could be needed. This includes preservation of the Specimen Tree. Due to there being no easements, there is no surety required.

**FOREST CONSERVATION WORKSHEET**

	Acres
<b>Net Tract Area</b>	
A. Total Tract Area	13.03
B. Area Within 100 Year Floodplain	--
C. Other deductions	--
D. Net Tract Area	13.03
Zoning Use Category: RESIDENTIAL-SUBURBAN	
Land Use Category	
E. Afforestation Minimum (20 % x D)	2.61
F. Conservation Threshold (25 % x D)	3.26
<b>Existing Forest Cover</b>	
G. Existing Forest on Net Tract Area	6.35
H. Forest Area Above Conservation Threshold	3.09
<b>Break-even Point</b>	
I. Forest Retention Above Threshold with no Mitigation	3.88
J. Clearing Permitted without Mitigation	2.47
<b>Proposed Forest Clearing</b>	
K. Forest Areas to be Cleared	2.47
L. Forest Areas to be Retained	3.88
<b>Planting Requirements</b>	
M. Reforestation for Clearing Above Threshold	0.62
N. Reforestation for Clearing Below the Threshold	0
P. Credit for Retention Above Conservation Threshold	0.62
Q. Total Reforestation Required	0
R. Total Afforestation Required	0
S. Total Reforestation and Afforestation Requirement	0

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 6/20/08  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*[Signature]* 6/25/08  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

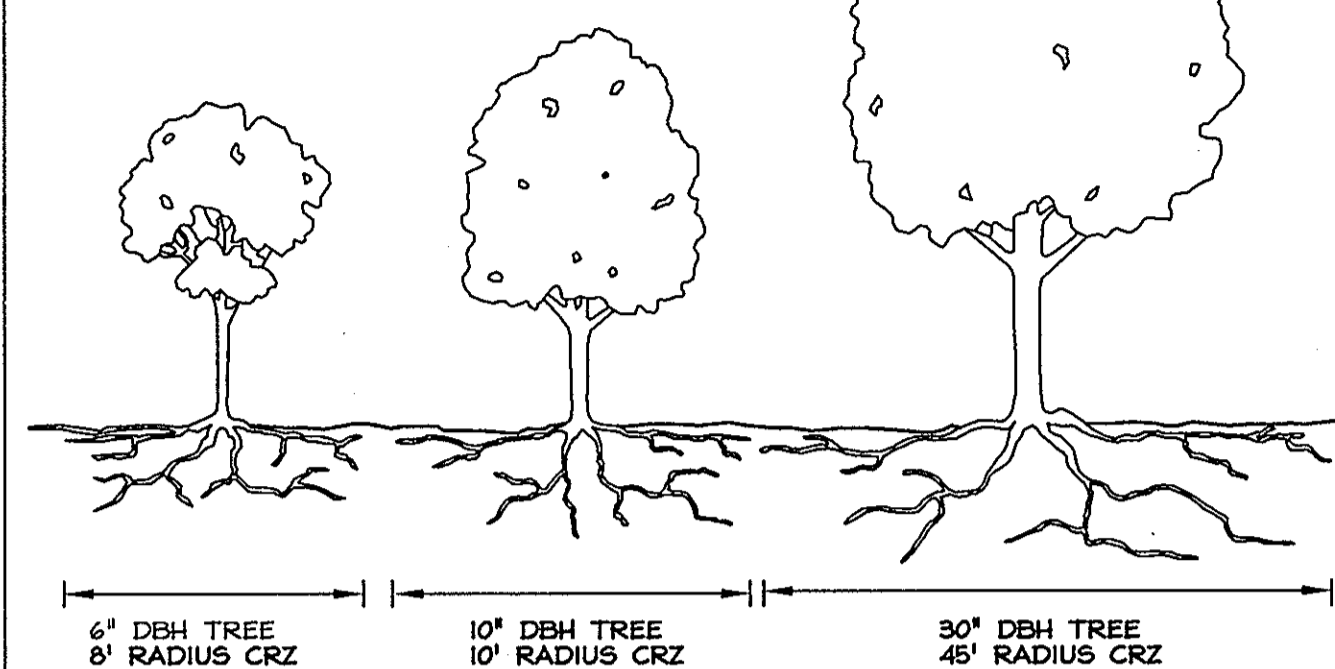
**CRITICAL ROOT ZONE**

For the edge of large areas, use the greater of the two choices below:

1<sup>st</sup> DBH of the tree = 1' radius of the or 8 ft radius circle around the trunk of the tree

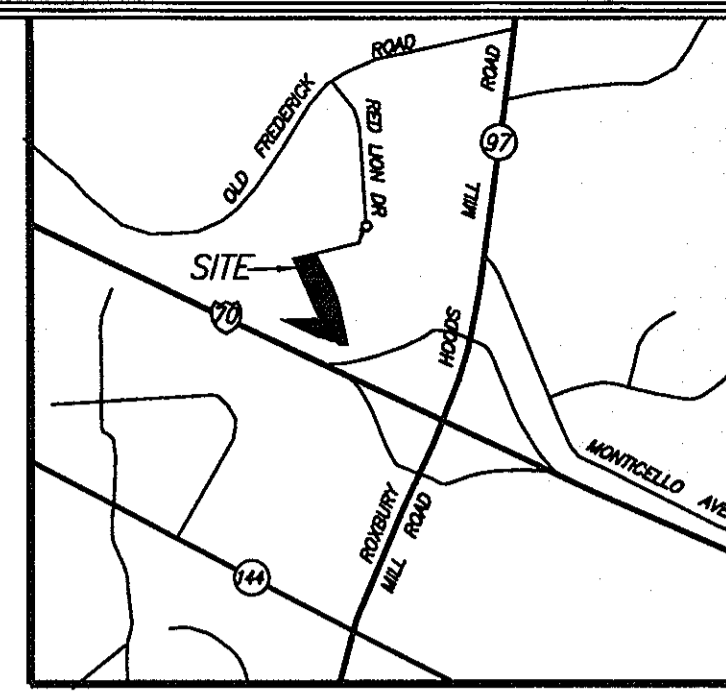
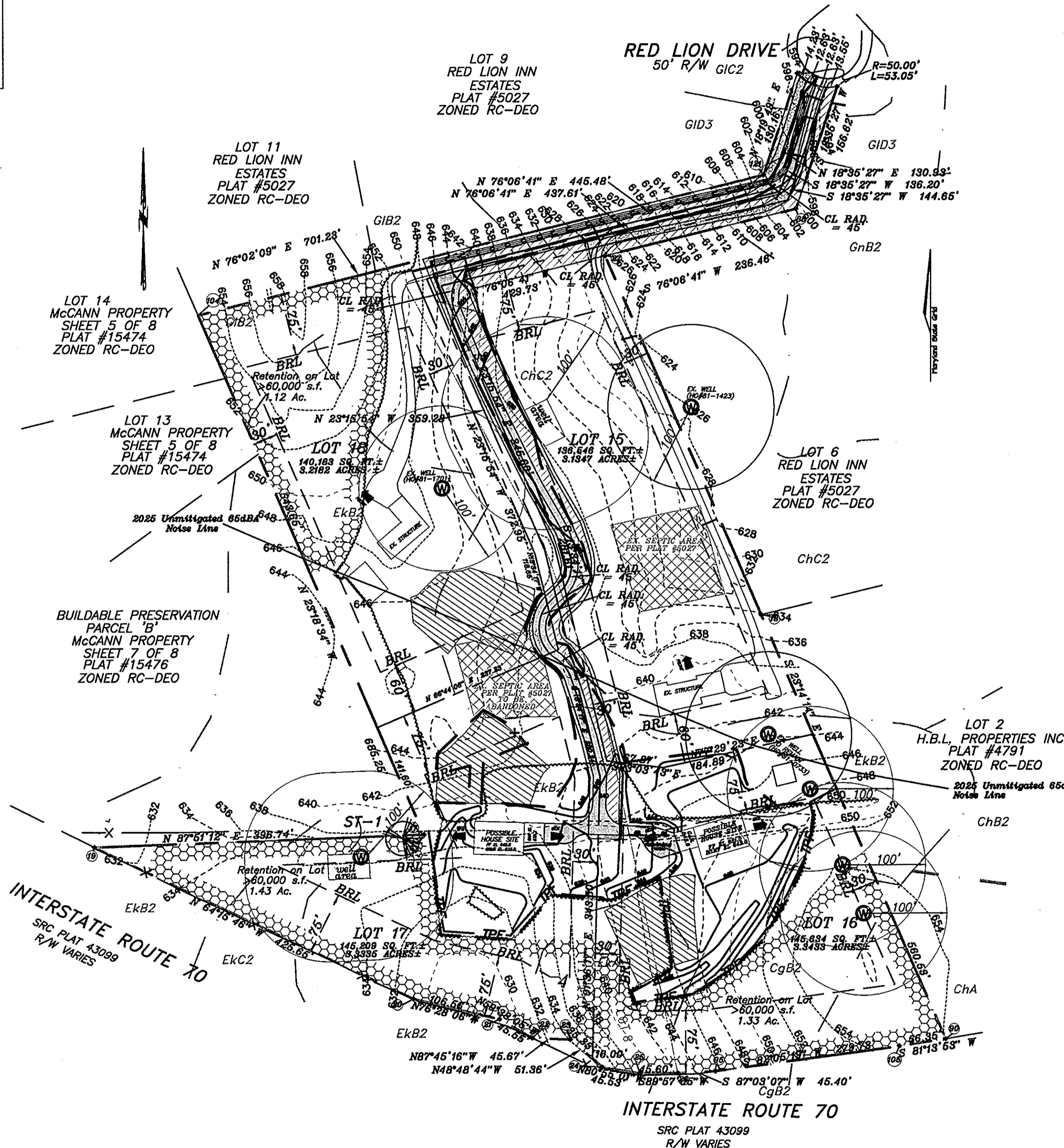
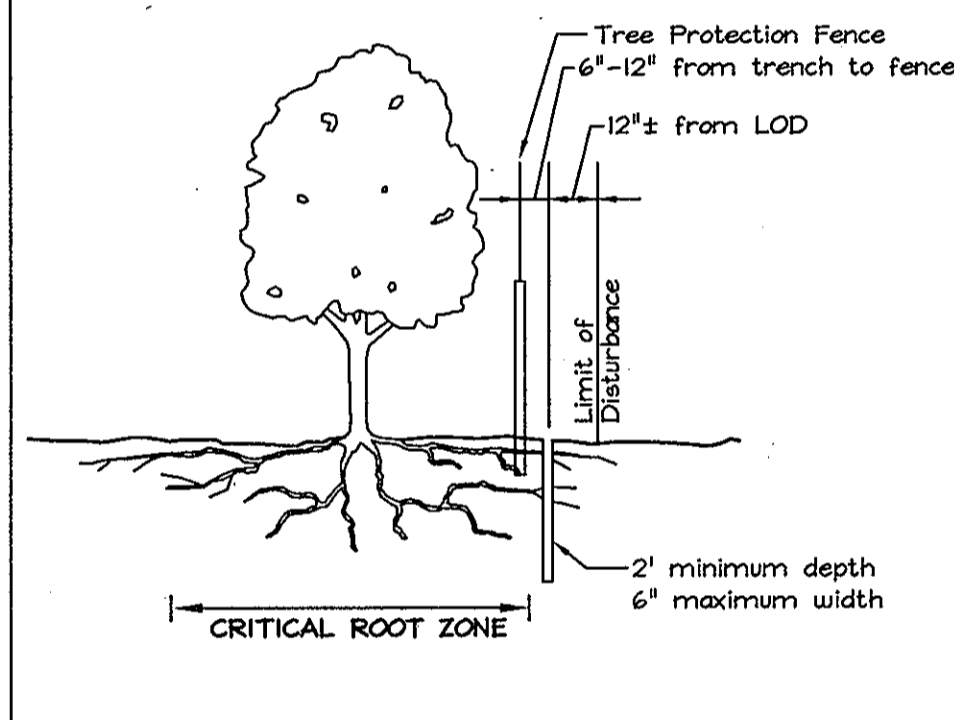
For isolated specimen trees:

1<sup>st</sup> DBH = 1.5' radius of the critical root zone

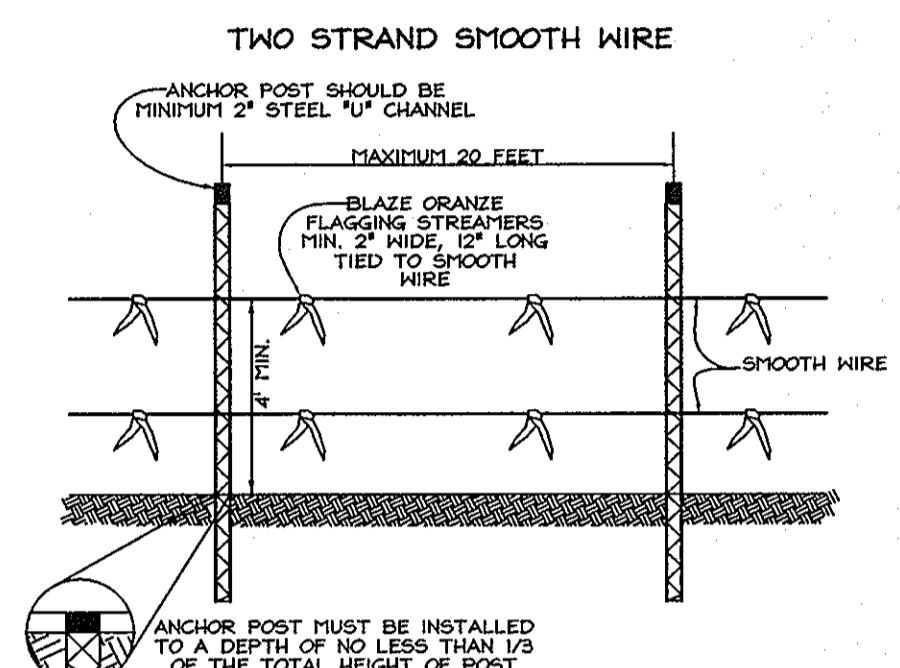


**ROOT PRUNING**

- 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.
- Roots shall be cut cleanly with root pruning equipment. Where roots 2" are found, trenching shall be done by air spade or hand tools. Roots 2" shall be cut with a hand saw.
- Trench shall be immediately backfilled with soil removed or high organic content soil.
- Any other techniques shall be approved by the ERI Qualified Professional before implementation.



VICINITY MAP  
SCALE: 1"=2000'



- NOTES:
- FOREST PROTECTION DEVICE ONLY.
  - RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
  - BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLATION.
  - NO INSTALLATION SHALL BE AVOIDED.
  - PROTECTIVE SIGNAGE MAY ALSO BE USED.
  - DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.
- TREE PROTECTION DETAIL**  
NOT TO SCALE

**LEGEND**

- Existing Contour
- Existing Septic Easement
- Proposed Septic Easement
- Limit of Disturbance
- Soil Boundary
- Forest Retention Area
- Tree Protection Fence
- Existing Treeline
- Proposed Treeline

SOIL TYPES			
NAME	HYDRIC	HYDRIC INCLUSIONS	SLOPES < 15% WITH HIGH EROSION POTENTIAL
GA	NO		
GIB2	NO		
CHB2	NO		
CHC2	NO		
EKA	NO		
EB2	NO		
EC2	NO		

**SHANABERGER & LANE**  
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**OWNERS:**  
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ESTER VALENZANO  
14681 RED LION DRIVE  
WOODBINE, MD 21797  
(410) 442-1560

**FOREST CONSERVATION PLAN**

**RED LION ESTATES**

(A RESUBDIVISION OF LOTS 7 & 8,  
RED LION INN ESTATES, PLAT #5027)  
TAX MAP 8 GRID 16 # 17 PARCEL 93  
4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**SPECIMEN TREES**

NO.	DBH	COMMON NAME	SCIENTIFIC NAME	CONDITION	RETAINED
ST-1	42"	Red oak	Quercus rubra	Good	Yes



**EXPLORATION RESEARCH, INC.**  
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DESIGN BY: RAB  
DRAWN BY: RAB/SPM  
CHECKED BY: SLH  
SCALE: 1"=100'  
DATE: Mar. 10, 2008  
P.L.O. No.: 2362  
SHEET No.: 1 OF 1