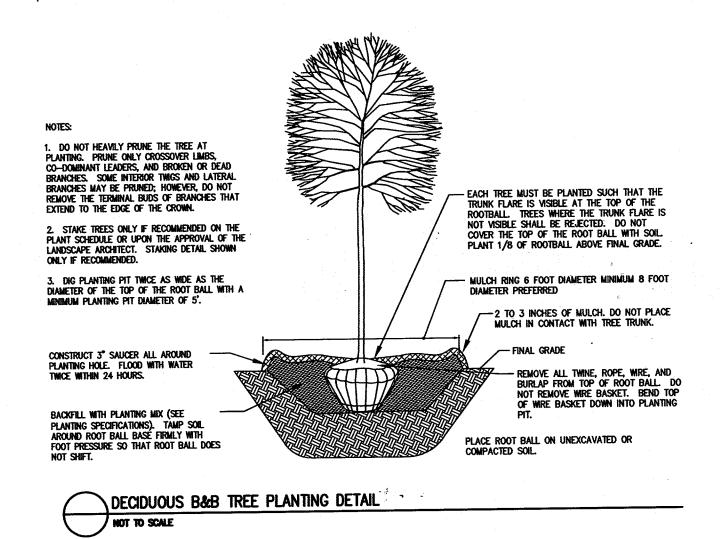


## PLANTING SPECIFICATIONS

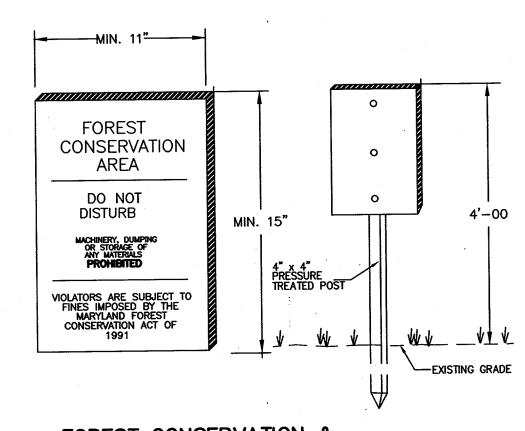
- 1. Plants, related material, and operations shall meet the detailed description, as given on the plans and as described herein. Where discrepancies exist between Standards & Guidelines referenced within these specifications and the Howard County Landscape Manual, the latter takes precedence.
- 2. All plant material, unless otherwise specified, that is not nursery grown, uniformly branched, does not have a vigorous root system, and does not conform to the most recent edition of the American Association of Nurserymen (AAN) Standards will be rejected. Plant material that is not healthy, vigorous, free from defects, decay, disfiguring roots, sunscald injuries, abrasions of the bark, plant disease, insect pest eggs, borers and all forms of insect infestations or objectionable disfigurements will be rejected. Plant material that is weak or which has been cut back from larger grades to meet specified requirements will be rejected. Trees with forked leaders will be rejected. All B & B plants shall be freshly dug; no healed—in plants or plants from cold storage will be accepted.
- 3. Unless otherwise specified, all general conditions, planting operations, details and planting specifications shall conform to the most recent edition of the "Landscape Specification Guidelines by the Landscape Contractors Association of MD, DC, & VA", (hereinafter "Landscape Guidelines") approved by the Landscape Contractors Association of Metropolitan Washington and the Potomac Chapter of the American Society of Landscape Architects.
- 4. Contractor shall guarantee all plant material for a period of one year after date of acceptance in accordance with the appropriate section on the Landscape Guidelines. Contractor's attention is directed to the maintenance requirements found within the one year specifications including watering and replacement of specified plant material.
- 5. Contractor shall be responsible for notifying all relevant and appropriate utility companies, utility contractors, and "Miss Utility" a minimum of 48 hours prior to the beginning of any work. Contractor may make minor adjustments in spacing and location of plant material to avoid conflicts with utilities. Major changes will require the approval of the landscape architect. Damage to existing structure and utilities shall be repaired at the expense of the Contractor.
- 6. Protection of existing vegetation to remain shall be accomplished via the temporary installation of 4 foot high snow fence at the drip line, see detail.
- 7. Contractor is responsible for installing all material in the proper planting season for each plant type. All planting is to be completed within growing season of completion of site construction. Do not plant Pinus strobus or XCupressacyparis leylandii between November 15 and March 15. Landscape plants are not to be installed before site is graded to final grade.
- 8. Contractor to regrade, fine grade, sod, hydroseed and straw mulch all areas disturbed by their
- 9. Bid shall be based on actual site conditions. No extra payment shall be made for work arising from actual site conditions differing from those indicated on drawings and specifications.
- 10. Plant quantities are provided for the convenience of the contractor only. If discrepancies exist between quantities shown on plan and those shown on the plant list, the quantities on the plan take precedence. Where discrepancies on the plan exist between the symbols and the callout leader, the number of symbols take precedence.
- 11. All shrubs and groundcover areas shall be planted in continuous planting beds, prepared as specified, unless otherwise indicated on plans. (See Specification 13). Beds to be mulched with minimum 2" and maximum 3" of composted, double-shredded hardwood mulch throughout.
- 12. Positive drainage shall be maintained on planting beds (minimum 2 percent slope).
- 13. Bed preparation shall be as follows: Till into a minimum depth of 6" 1 yard of Compro or Leafgro per 200 SF of planting bed, and 1 yard of topsoil per 100 SF of bed. Add 3 lbs of standard 5-10-5 fertilizer per cubic yard of planting mix and till. Ericaceous plants (Azaleas, Rhododendrons, etc.): top dress after planting with iron sulfate or comparable product according to package directions. Taxus baccata 'Repandens' (English weeping yews): Top dress after planting with 1/4 to 1/2 cup lime each.
- 14. Planting mix: For trees not in a prepared bed, mix 50 % Compro or Leafgro with 50 % soil from tree hole to use as backfill, see tree planting detail.
- 15. Weed & insect control: Incorporate a pre-emergent herbicide into the planting bed following recommended rates on the label. For tree planting, apply a pre-emergent on top of soil and root ball before mulching. Caution: For areas to be planted with a ground cover, be sure to carefully check the chemical used to assure its adaptability to the specific groundcover to be treated. Maintain the mulch weed—free for the extent of the warranty period. Under no circumstances is a pesticide containing chlorpyrifos to be used as a means of pest control.
- 16. Water: All plant material planted shall be watered thoroughly the day of planting. All plant material not yet planted shall be properly protected from drying out until planted. At a minimum, water unplanted plant material daily and as necessary to avoid dessication.
- 17. Pruning: Do not heavily prune trees and shrubs at planting. Prune only broken, dead, or diseased
- 18. All areas within contract limits disturbed during or prior to construction not designated to receive plants and mulch shall be fine graded, grass seed planted, and covered with straw mulch.



### GENERAL NOTES

- 1) THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
- 2) THIS PLAN IS FOR LANDSCAPING PURPOSES AND FOREST CONSERVATION PURPOSES ONLY.
- 3) CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- 4) ALL MATERIAL SELECTED SHALL BE EQUAL TO OR BETTER THAN THE REQUIREMENTS OF THE "USA STANDARD FOR NURSERY STOCK", LATEST EDITION, AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- 5) ALL MATERIAL SHALL BE PLANTED IN ACCORDANCE WITH THE MINIMUM STANDARDS CITED IN THE LATEST EDITION OF "LANDSCAPE SPECIFICATION GUIDELINES" PUBLISHED BY THE LANDSCAPE CONTRACTORS ASSOCIATION.
- 6) AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS SHALL BE OF THE PROPER HEIGHT AND/OR SPREAD REQUIREMENTS IN ACCORDANCE WITH THIS PLAN.
- 7) NO SUBSTITUTIONS OR RELOCATION OF PLANTS MAY BE MADE WITHOUT PRIOR APPROVAL FROM THE LANDSCAPE ARCHITECT.
- 8) FINANCIAI SURETY FOR THE REQUIRED LANDSCAPING MUST BE POSTED AS PART OF THE GRADING PERMIT IN THE AMOUNT OF 15 SHADE TREES @ \$300 = \$4,500

RE	REFORESTATION PLANT LIST									
QTY.	SCIENTIFIC/ COMMON NAME	SIZE	ROOT	REMARKS						
6	Acer rubrum Red maple									
6	Betula nigra River birch	1" CAL.	B&B	FULL CROWN PLANT 15' O.C.						
17	Carpinus carolina American hornbeam			RANDOM PATTERN						
23	llex opaca American holly	3' HT.	CONT.	PLANT 11' O.C. RANDOM PATTERN						
52	TOTAL QUANTITY									



#### FOREST CONSERVATION & REFORESTATION SIGN DETAIL NOT TO SCALE

SCHEDULE A - PER	IMETER LAN	DSCAPE ED	)GE	
	ADJA( PERIMETER	PROPERTIES	ADJACENT TO ROADWAYS	TOTAL REQ/PROV.
PERIMETER	1	2	NA	
LANDSCAPE TYPE *	A	Α	NONE REQUIRED	
LINEAR FEET OF ROADWAY FRONTAGE/ PERIMETER	897'±	510'±	NA	
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	YES 510'±	' NA	
CREDIT FOR WALL, FENCE, BERM OR DRIVE AISLE (YES/NO/LINEAR FEET)	NO	NO	NA	
LINEAR FEET REMAINING	897'±	0	NA	
NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES SHRUBS	15 - -	=	NA NA NA	15
NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES SMALL FLOWERING TREES SHRUBS	15 = -	=	NA NA NA	15

\* A= 1 SHADE TREE/60 LF

# **Howard County Forest Conservation Worksheet**

Project Name: Blouin Property

State F	e #			
a and the control of the control of the	Date: April 19, 2005			
graphic acceptance to the contract of the cont				
Net Trac	t Area			Acres
A.	Total Tract Area	Α	= [	13.22
, с. В.	Other Deductions (floodplain)	В	=	0.00
С.	Net Tract Area Net Tract Area = (A-B-C)	С	= -	13.22
	e Category: Residential Medium Density			
D.	Afforestation Threshold (Net Tract Area X _ 20%	D	=	2.64
D. E.	Conservation Threshold (Net Tract Area X25%	Ε	=	3.30
and the second second second	Forest Cover			<u> </u>
and the second second second second	Existing Forest Cover within the Net Tract Area	F	=	0.30
F.	Area of Forest Above Conservation Threshold	G	= -	0.00
G.	If the Existing Forest Cover (F) is greater than Conservation Threshold (G), then		· · · · · · · · · · · · · · · · · · ·	
	Title Existing Forest Cover (F) Consonation Threshold (F): Otherwise G = 0			
	G = Existing Forest Cover (F) - Conservation Threshold (E); Otherwise G = 0			
car access a cardiores of	ven Point	Н	=	FALSE
Н.	Break Even (Amount of forest that must be retained so that no mitigation is required)			TALOE
	(1) If the area of forest above the Conservation Threshold (G) is greater than zero, then			
Tanada a sa	H = (0.2 X the area of forest above Conservation Threshold (G)) + the Conservation			in the second se
	Threshold (E)			: "
	(2) If the area of forest above the Conservation Threshold (G) is equal to zero, then			
	H = Existing Forest Cover (F)			^ 20
1.	Forest Clearing Permitted Without Mitigation		=	0.30
And Annual Control of	I = Existing Forest Cover (F) - Break Even Point (H)			
Propose	ed Forest Clearing			) 
J.	Total Area of Forest to be Cleared		=	0.30
K.	Total Area of Forest to be Retained	K	=	0.00
The second section of the second	K = Existing Forest Cover (F) - forest to be cleared (J)		en de la companie	
Plantin	a Requirements	1		
If the To	tal Area of Forest to be Retained (K) is at or above the Breakeven Point (H), no planting is required ar	d no	l : Sáste s	and the second s
further c	alculations are necessary (L=0, M=0, N=0, P=0);			
	alculate the planting requirement below:			
1	Reforestation for Clearing Above the Conservation Threshold	L	=	0.00
<b></b>	(1) if the total area of forest to be retained (K) is greater than the			:
analysis addition to the control of	Conservation Threshold (E), then			
	L = the area of forest to be cleared (J) X 0.25: or			
Land to the second seco	(2) If the forest to be retained (K) is less than or equal to the Conservation Threshold (E), then			kanan ar yangang sya sukeban gubupat sa sa Albas si K
	L = area of forest above Conservation Threshold (G) X 0.25			janan sa
	L = area of lorest above conservation Threshold	М	· · · =	0.60
M.	Reforestation for Clearing Below the Conservation Threshold			
the second second	(1) if Existing Forest Cover (F) is greater than Conservation Threshold (E) and the			Enter the second
The second secon	forest to be retained (K) is less than or equal to the Conservation Threshold (E), then			
	M = 2.0 X (the Conservation Threshold (E) - the forest to be retained (K))	J., 4		e g www.comen.comen.com e
	(2) If Existing Forest (F) is less than or equal to the Conservation Threshold (E), then			e government of the second
	M = 2.0 X Forest to be cleared (J).		=	0.00
N.	Credit for Retention Above the Conservation Threshold	- 18		0.00
	If the area of forest to be retained (K) is greater than the Conservation Threshold (E),			The second of th
	then N = K - E			
P.	Total Reforestation Required P = L + M - N		=	0.60
Q.	Total Afforestation Required	C	) =	2.34
The second second second	(1) If Existing Forest Cover (F) is less than the Afforestation Threshold (D) then			
The state of the s	Q = the Afforestation Threshold (D) - the Existing Forest Cover (F)			ili. Distribution de la companya de
R.	Total Planting Requirement R = P + Q	R	=	2.94

# FOREST CONSERVATION NOTES

- 1. ONE (1) FOREST STANDS EXIST ON-SITE.
- 2. THE SITE CONTAINS WETLANDS.
- 3 NO CRITICAL HABITATS OF RARE, THREATENED OR FNDANGERED SPECIES WERE OBSERVED.
- 4. NO TREES, SHRUBS, OR PLANTS IDENTIFIED AS RARE, THREATENED OR ENDANGERED WERE OBSERVED.
- 5 THERE ARE NO KNOWN CEMETERY OR BURIAL PLOTS LOCATED ON THE SITE, ACCORDING TO THE HOWARD COUNTY HISTORIC AND CEMETERY SITE MAP.
- 6. THE SITE CONTAINS NO HYDRIC SOILS AND ONE SOIL WITH POSSIBLE HYDRIC INCLUSION, KELLY (Ke).
- 7. THE HOWARD COUNTY FOREST CONSERVATION MANUAL SUPERSEDES ANY DISCREPANCIES BETWEEN THE MANUAL AND THESE PLANS.
- 8. SEE FOREST STAND DELINEATION REPORT DATED AUGUST 16, 2004 FOR FIELD INVESTIGATION NARRATIVE.
- 9. IN ACCORDANCE WITH SECTION 16.1202 OF THE FOREST CONSERVATION MANUAL, THE AFFORESTATION OBLIGATION FOR THIS PROJECT SHALL BE PROVIDED BY PLANTING 0.32 ACRES ON-SITE, AND 2.62 ACRES OFF-SITE (1:1 PLANTING RATIO). THE ONSITE & OFFSITE FOREST CONSERVATION EASEMENTS HAVE BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT. AN OFFSITE FOREST CONSERVATION EASEMENT IS LOCATED ON WATERFORD FARM PROPERTY, PARCEL '3', T.M. 20, P.20. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT; HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.

## STREET TREE SCHEDULE LF OF ROAD FRONTAGE 1003' # OF STREET TREES REQUIRED 25

# OF STREET TREES PROVIDED

#### STREET TREE PLANT LIST SCIENTIFIC/ ROOT SIZE COMMON NAME Platanus acerfolia 'Bloodgood' Bloodgood London plane tree

25

OWNER/DEVELOPERS CERTIFICATE:

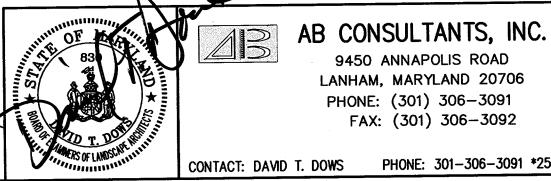
I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, REQUEST A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Joseph Blown

# SITE CHARACTERISTICS

_			
	GROSS AREA	13.22	ACRES
	100 YEAR FLOODPLAIN AREA	0.00	ACRES
	NET TRACT AREA	13.22	ACRES
	TOTAL FORESTED AREA	0.30	ACRES
	TOTAL STEEP SLOPES (>25%)	0.00	ACRES

LANDSCAPE REQUIREMENT PLANT LIST						
SYMBOL	QTY.	SCIENTIFIC/ COMMON NAME	SIZE .	ROOT		
AR	6	Acer rubrum 'Autumn Flame' Autumn Flame Red maple	2 1/2 - 3" cal.	B&B		
QP	9	Quercus palustris Pin oak	2 1/2 - 3" cal.	B&B		
	15	TOTAL QUANTITY				



AB CONSULTANTS, INC.

9450 ANNAPOLIS ROAD

LANHAM, MARYLAND 20706

PHONE: (301) 306-3091

FAX: (301) 306-3092

(410) 489-9394 BLOUIN PROPERTY, LOT 1-4

APPROVED: DEPARTMENT OF PUBLIC WORKS

CHIEF, DIVISION OF LAND DEVELOPMENT

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING

CHIEF, BUREAU OF HIGHWAYS

A RESUBDIVISION OF CRYSTAL CLEAR, LOT SCALE: AS SHOWN LANDSCAPE/ON-SITE FOREST

CONSERVATION NOTES & DETAILS

OWNER:

13800 KENNARD DRIVE

GLENELG, MARYLAND 21737

JOSEPH BLOUIN

SHEET 2 OF 4 3rd ELECTION DISTRICT, HOWARD COUNTY, MARYLAND TAX MAP 22, PARCEL 533, GRID 7

REVISION

DEVELOPER:

13800 KENNARD DRIVE

GLENELG, MARYLAND 21737

JOSEPH BLOUIN

(410) 489-9394

F05-161

DATE: 08/22/06

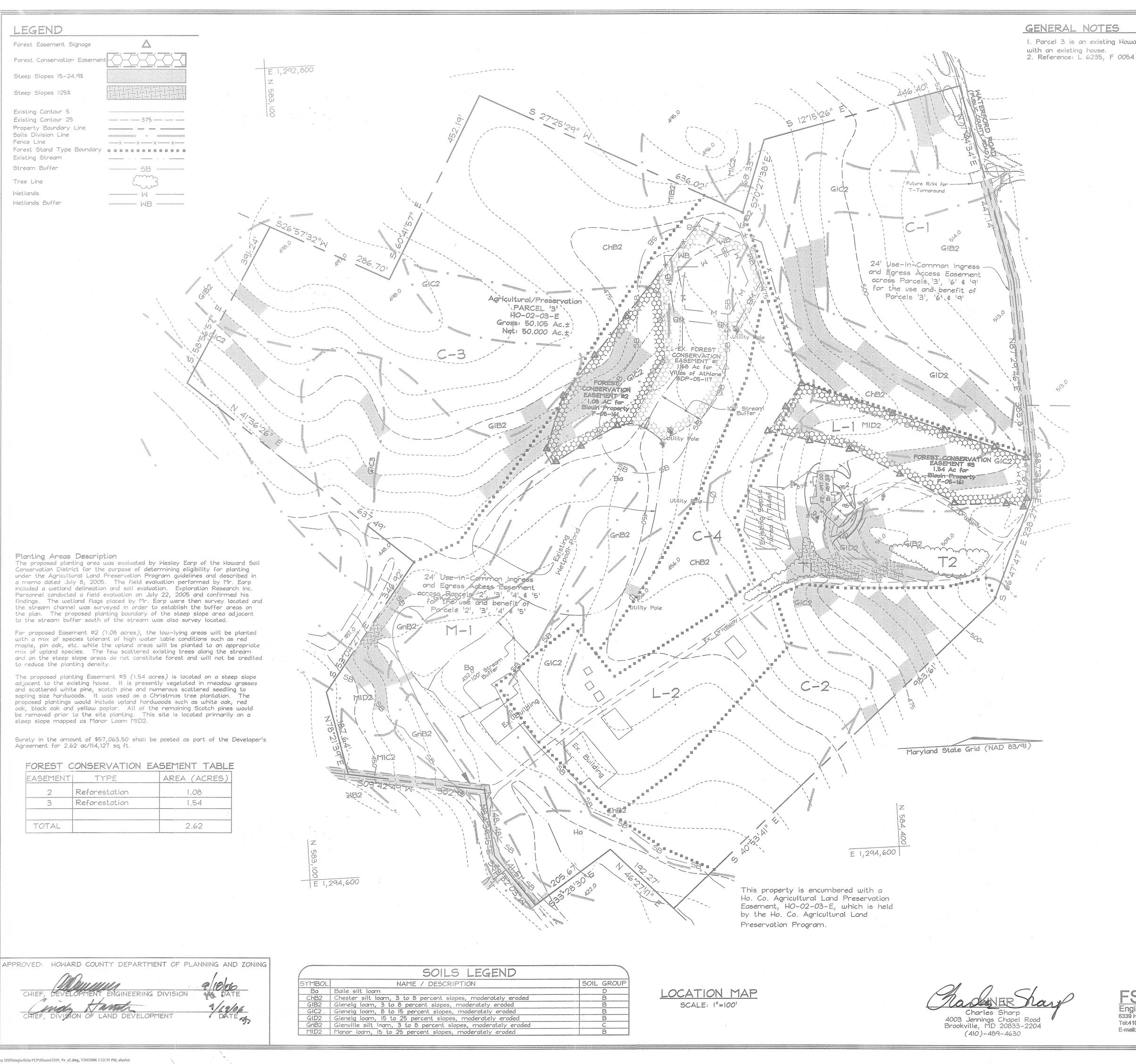
DRAWN BY: XZ

CHECKED BY: DTD

04-016

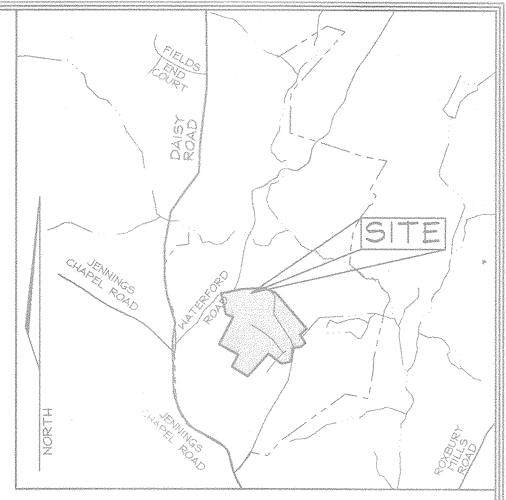
DATE

35 DATE



GENERAL NOTES

1. Parcel 3 is an existing Howard County Agricultural Preservation Parcel HO-02-03-E



VICINITY MAP SCALE: I"=2000'

#### FOREST STAND ANALYSIS TABLE

				SOIL II	VFORMATION	ikan manan kan kan manan kan manan manan kan kan kan kan kan kan kan kan kan	EXISTING	STAND	CHAR	ACTERISTICS	FOREST AREA	
KEY	TYPE OF COMMUNITY	AREA Acres	SOIL	TYPICAL FOREST COVER	WOODLAND SUITABILITY INDEX	HABITAT VALUE	VEGETATION (Type and approx. %)	SIZE AVG. DIAM	AGE	GENERAL CONDITIONS	IN SENSITIVE ENVIRONMENTS	
Tal	Tree Group	0.18	GIC2	Mixed Oak	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
T-2	Tree Group	0.19	GIB2	Mixed Oak	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
C-1	Crop Field	7.96	ChB2 GIB2 GIC2 GID2	· N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	
C-2	Crop Field	4.63	ChB2 GIC2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
C-3	Crop Field	13.09	CHE2 GIB2 GIC2 MIB2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A.	
C-4	Crop Field	2.39	ChB2 GnB2 GnC2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Lawn (Farm Stead)	4.74	CHB2 GIB2 GIC2 GID2 MID2	· N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	
L-2	Laur	3.55	ChB2 GIC3	N/A	N/A	· N/A	N/A	N/A	N/A	N/A	N/A	
M - 1	Meadow	13.38	Ba ChB2 GIC2 GhB2 Ha MB2 MIC2 MIC2 MID2	N/A	N/A	WA	N/A	N/A	N/A	N/A .	NA	

Forest Stand Narrative

Total acreage of the site is 50.11 acres.
T-1 This tree group is 0.18 Ac, in size and contains steep slopes. The canopy is dominated by black oak, Quercus velutina and red maple, Acer rubrum. The area is currently mowed and the understory is sparse, with steep slopes consisting of 0.14 Ac.

T-2 This tree group is 0.19 Ac, in size. The canopy is dominated by black oak, Quercus velutina, red maple, Acer rubrum, shingle oak, Quercus imbricaria, and black cherry, Prunus serotina. Understory is consists of overstory saplings, scarlet oak, Quercus coccinea and black walnut, Juglans nigra. L-1: This 4.74 Ac. area surrounds an existing house and various farm out buildings. The area contains lawn, and ornamental tree plantings. The area contains

1.02 acres of environmentally sensitive areas, steep slopes are covered by L-1.

L-2: This 3.55 Ac. area surrounds existing farm buildings located on the southeast corner of the property. This area contains lawn and various ornamental plantings. The area contains no environmentally sensitive areas. C-1: This 7.96 Ac. crop area is currently in active crop land production. The area

contains 1.10 acres of environmentally sensitive areas, steep slopes covered by C-1. C-2: This 4.63 Ac, crop area is currently in active crop production. C-2 contains 0.53 acres of steep slopes.

C-3: This 13.09 Ac, crop area is currently in active crop land production. The area contains 0.50 acres of steep slopes. C-4: This 2.39 Ac, crop area is currently in active crop production. The area does not contain any environmentally sensitive areas.

M-I: This 13.38 Ac. open field area contains grazing pastures and open field. The area contains wetlands, streams and associated buffers, and steep slopes.

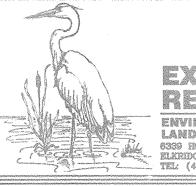


Engineers Planne 3 Surveyors 6339 Howard Lane, Elknoge, MD 21u75 Tel:410-567-5200 Fax: 410-796-1562 E-mail: info@fsheri.com

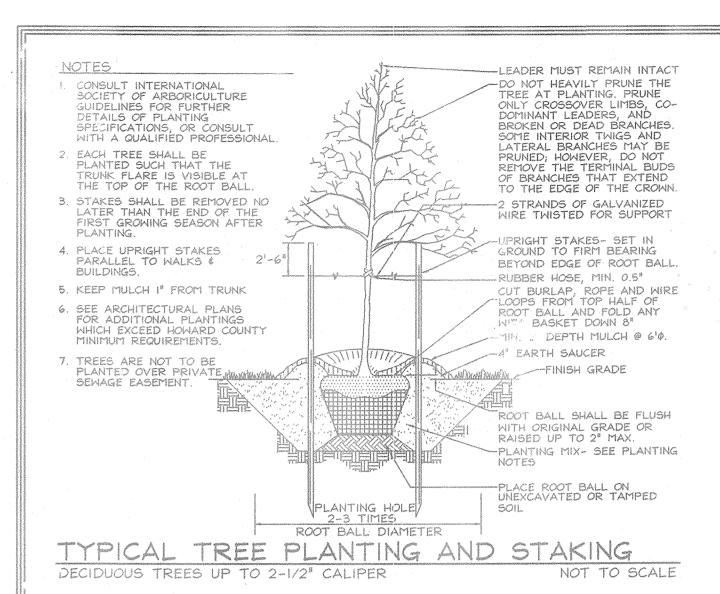
# OFFSITE FOREST MITIGATION PLAN for BLOUIN PROPERTY LOTS 1-4 (F-05-161) on Waterford Farm, Parcel 3

TAX MAP 20 GRID 12 4TH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



DESIGN BY: RAB DRAWN BY: KSZ/MA CHECKED BY: SLH SCALE: 1"=100" DATE: July 24, 2006 ENVIRONMENT CONSULTANTS LANDSCAPE ANTECTS W.O. No.: 3082 \* 6399 HOWARD LASS - ELEPHOGE, MARYAN TEL: (440) 56 SHEET No. 3 OF 4 AX (410) 796-1562



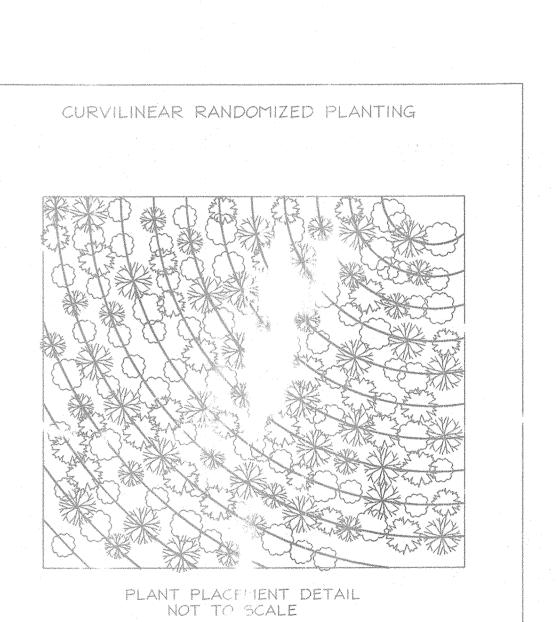
in C.L.	#2 PLANTING AR	EA: .01 Ac. (200	) IPA)		and the second s
Qty	Botanical Name	Common Name	Min. Size	Spacing	Notes
29	Acer rubrum	Red Ma e	l" cal.	15' o.c.	
29	Platanus occidentalis	SYCAMOR	l" cal.	15' o.c.	Balled and
29	Quercus alba	White Oak	l" cal.	15' a.c.	Burlaped
29	Quercus palustris	Pin Oak	ll" cal.	15 <sup>1</sup> o.c	
13	Salix nigra	Black Willow	I" cal.	15 0.0	
29	Cercis canadensis	Redbud	1" cal.	15' o.c	
29	Amelanchier canadensis	Service Berry	l" cal.	15' o.c	
29	Pinus taeda	Loblotty Pine	l" cal.	15' o.c.	pynis «
216	Total Plantings		and the second s	3777	

A graphing of the state of the

FCE	#3 PLANTING AREA: 1.54 Ac. (200 TPA)								
Qty	Botanical Name	Common Name	Min. Size	Spacing	Notes				
44	cer rubrum	Red Maple	I" cal.	151 0.0.					
44	Liriodendron tul pifera	Yellow Poplar	I" cal.	15' o.c.	Balled				
44	Quercus alba	White Oak	I" cal.	15° o.c.	and Burlaped				
44	Guercus velutina	Black Oak	1" cal.	151 o.c.					
44	Cercis canadensis	Redbud	I" cal.	15' o.c.					
44	Compinus caroliniana	American Hornbeam	I" cal.	15' o.c.					
44	Cornus florida	White Dogwood	I" cal.	15' o.c.					
200	Professional Contractions (1) and the contraction of the contraction o	The Performance of States of Market States and Constraints and the Constraints and Constraints	use (krevine #14/10) on ere consurer en is four ent anny sold and an ere en une considera que en expensable.	a Shahindan Ahaman an an Abad a man a waren — A yag ang agad Ah Shahinnin Shahinda An Anna a man	And the second s				

Plant Selection	and D	ensity	Spacing Requireme	ent	\$,
be determined at t footage credit, whi must be fulfilled fo	ensity s he time ch varie or each accordo	hall may of plan s by mo acre plan acre with	vary with a combinat ting. Planting quantity aterial size. A total of	anc 43	of planting stock, which will I spacing are based on square ,560 sq. ft. of planting credit fulfilled with any combination
Material Size	Spacino		Sq. Ft. Credit per pla	nt.	Comments
2" caliper trees	20' x 3		435.6	edigentalismismismus 12. 4. Per	IB & B
Il" caliper trees	151 x 1	5' 200	217.8	pungginarun) q	B ¢ B
seedlings or whips	11' × 11	350	125		Container 1-3 gal. w/tree shelters
seedlings	8' x 8	700	62	wall-work production of the	Bare root or container grown
COMMON NAME Black Gum Black Oak Chestnut Oak Northern Red Yellow Poplar Virginia Pine Eastern Redced Understory Pla	Oak dar	SCIEN Nyssa Quercu Quercu Quercu Liriode Pinus Juniper	TIFIC NAME sylvatica s velutina s prinus s rubra indron tulipifera virginiana rus virginiana te Species List *	T c o s o s o d t	Plant Selection  The planting area should contain a combination of approximately 80% overstory species and 20% understory pecies, intermixed evenly through out. A minimum of three different pecies must be planted in the overstory and a minimum of two different species must be planted in the understory, to create a multi-species, multi-layered system
COMMON NAME Service Berry Eastern Hornbe American holly Boxelder Hackberry	am	Carpina Ostrya Ilex op Acer r	TIFIC NAME us caroliniana virginiana paca negundo occidentalis		
American Dogu	Jood	Cornus	florida		
$T_{in,near equality processes a constraint and co$	a de em circilado de todos como mais contratos e formas forbasi	Arrestment of the transfer of the second section of the second of the se		eneral P	

\* Size, species and quantities listed are suggested plantings and may be substituted, but only in conformance with the Howard County Forest Conservation Manual. The stream buffer and pond edge area will be planted with black willow, pin oak, sycamore, red maple, and serviceberry. Black willow will not be planted on upland areas.

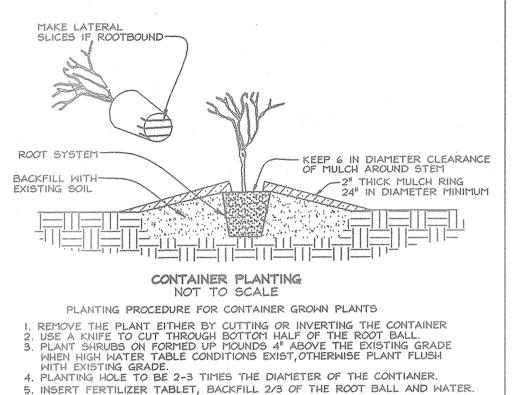


I MIX TREE AND SHRUB SPECIES IN THE STAGING AREA. 2. SET THE GUIDE CURVILINEAR LINE AS CLOSE TO CONTOUR AS POSSIBLE.

APPROVED: HOWARD COUNTY DEPARTMENT OF MANNING AND ZONING

NOTE: MULCHING NEWLY PLANTED SEEDLINGS HELPS THE SOIL RETAIN MOISTURE AND THE SEEDLING FROM COMPACTION AND STEM INJURIES. CORRECT PLANTING DEPTH AT SAME DEPTH AS TOO DEEP AND TOO SHALLOW AND SEEDLING WAS GROWN IN NURSERY ROOTS ARE EXPOSED MAKE LATERAL SLICES IF, ROOTBOUND-

SEEDLING AND WHIP PLANTING



6. AFTER WATER PERCOLATES, BACKFILL HOLE TO TOP OF ROOT BALL AND GENTLY TAMP SOIL TO FIRM CONTACT WITH PLANT.
7. APPLY MULCH RING AROUND PLANT KEEPING A 6 IN CLEARANCE FROM STEM.

Reforestation and Afforestation Area Protection Signage

Min. II"

Forest Conservation Area REFORESTATION PROJECT Trees for Your Future

SIGN DETAIL: PERMANENT SIGN

SIGNAGE NOTE: ALL TREE PROTECTION SIGNS SHALL BE PLACED ON METAL 'T' POSTS OR PRESSURE TREATED WOOD POLES. NO ATTACHMENT OF SIGNS TO TREES IS PERMITTED. Reforestation Area Planting Notes

1. Initial planting inspection and certification required. Planting contractor to notify ERI qualified professional 24 hours in advance of planting. 2. Reforestation areas may be planted as soon as reasonable to do so. Late winter- early spring plantings are preferred. Earliest planting dates will vary from year to year but planting may generally begin as soon as the

ground is no longer frozen. Alternate planting dates may be considered as conditions warrants. 3. Soil amendments and fertilization recommendations will be made based upon the results of soil analysis for nitrogen, phosphorus, potassium, organic matter content and pH. If required, fertilizer will be provided

using a slow release, soluble 16-8-16 analysis designed to last 5-8 years contained in polyethylene perforated bags such as manufactured by ADCO Works, P.O. Box 310 Hollins, N.Y. 11423 or approved equal. 4. Plant materials shall be planted in accordance with the planting

diagram, planting details and planting schedule. 5. Plant stock must be protected from desiccation at all times prior to planting. Materials held for planting shall be moistened and placed in cool shaded areas until ready for placement. 6. Planting materials shall be nursery grown and inspected prior to planting.

Plants not conforming to the American Standards for Nursery Stock specifications for size, form, vigor, or roots, or due to trunk wounds, breakage, desiccation, insect or disease must be replaced. 7. Newly planted trees may require watering at least once per week during the first growing season depending on rainfall in order to get established.

The initial planting operation should allow for watering during installation to completely soak backfill materials. 8. Mulch shall be applied in accordance with the diagram provided and

shall consist of composted, shredded hardwood bark mulch, free of

9. Planting holes should be excavated to a minimum diameter of 2.5 to 3 times the diameter of the root ball or container. Mechanical auguring is preferred with scarification of the sides of each hole.

10. All nursery stock may be sprayed with deer repellent containing Bitrex such as Repellex(TM). All nursery stock to be grown with deer repellent tablets in growing medium, such as Repellex Tablets.

Reforestation Area Monitoring Notes

1. Monthly visits during the first growing season are to assess the success of the plantings and to determine if supplemental watering, pest control, invasive plant management, mowing or other actions are necessary. Early spring visits will document winter kill and autumn visits will document summer kill.

2. 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.

3. Survival will be determined by a stratified random sample 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. 4. Effective monitoring will assess plant survivability during the first growing season and make recommendations for reinforcement planting if required at that time.

Forest Tree Protection and Management Notes

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

2. Forest protection and management to be in accordance with a forest management plan. The plan shall be prepared by a MD. licensed forester to facilitate the landowners management objectives, such as wildlife enhancement, water quality, aesthetics, forest products, etc.

3. Future forest harvests may be conducted under a Howard County approved forest harvest plan, prepared by a MD. Itsensed forester.

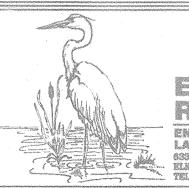
4003 Jennings Chapel Road Brookwille, MD 20833-2204 (410)-489-4630

> Engineers Planners Surveyors 6339 Howard Lane, Elkridge, MD 21075 Tel:410-567-5200 Fax: 410-796-1562 E-mail: info@fsheri.com

OFFSITE FOREST MITIGATION PLAN for BLOUIN PROPERTY LOTS 1-2 (F-05-161) on Waterford Farm, Parcel 3

TAX MAP 20 GRID 12 4TH ELECTION DISTRICT

PARCEL 3 HOWARD COUNTY MARYLAND



DRAWN BY RAB/MA ENV. TAMBERTAL CONSULTANTS LANDS-LTE A GC. TECTS 6359 HOVARD LA. ELKRIDGE, MARYLALD 21075 TEL (410) 687-5210 FAR (410) 798-1562

DESIGN BY: RAB

CHECKED BY SLH SCALE: As Shown

DATE July 24, 2006

W.O. No.: 3205

SHEET No. 4 OF 4

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