

FOREST CONSERVATION DATA

FOREST CONSERVATION WORKSHEET

NET TRACT AREA:

A. TOTAL TRACT AREA	= 9.22
B. AREA WITHIN 100 YEAR FLOODPLAIN	= 3.49
C. AREA TO REMAIN IN AGRICULTURAL PRODUCTION	= 0.00
D. NET TRACT AREA	= 5.73

LAND USE CATEGORY:

ARA	MDR	DA	HDR	MFD	CIA
0	0	0	1	0	0

E. AFFORESTATION THRESHOLD: 20% X D = 1.15
 F. CONSERVATION THRESHOLD: 25% X D = 1.43

EXISTING FOREST COVER:

G. EXISTING FOREST COVER (EXCLUDING FLOODPLAIN)	= 2.60
H. AREA OF FOREST ABOVE AFFORESTATION THRESHOLD	= 1.45
I. AREA OF FOREST ABOVE CONSERVATION THRESHOLD	= 1.17

BREAK EVEN POINT:

J. FOREST RETENTION ABOVE THE THRESHOLD WITH NO MITIGATION	= 1.67
K. CLEARING PERMITTED WITHOUT MITIGATION	= 0.00
L. PROPOSED FOREST CLEARING	= 2.60
M. TOTAL AREA OF FOREST TO BE CLEARED	= 0.00
N. TOTAL AREA OF FOREST TO BE RETAINED	= 2.60

PLANTING REQUIREMENTS:

N. REFORESTATION FOR CLEARING ABOVE THE CONSERVATION THRESHOLD	= 0.00
P. REFORESTATION FOR CLEARING BELOW CONSERVATION THRESHOLD	= 0.00
Q. CREDIT FOR RETENTION ABOVE CONSERVATION THRESHOLD	= 1.17
R. TOTAL REFORESTATION REQUIRED	= 0.00
S. TOTAL AFFORESTATION REQUIRED	= 0.00
T. TOTAL REFORESTATION AND AFFORESTATION REQUIRED	= 0.00

* NOTE: 2.6 ACRES IS PLACED IN FOREST CONSERVATION EASEMENTS AS A CONDITION OF APPROVAL OF WP-04-132.

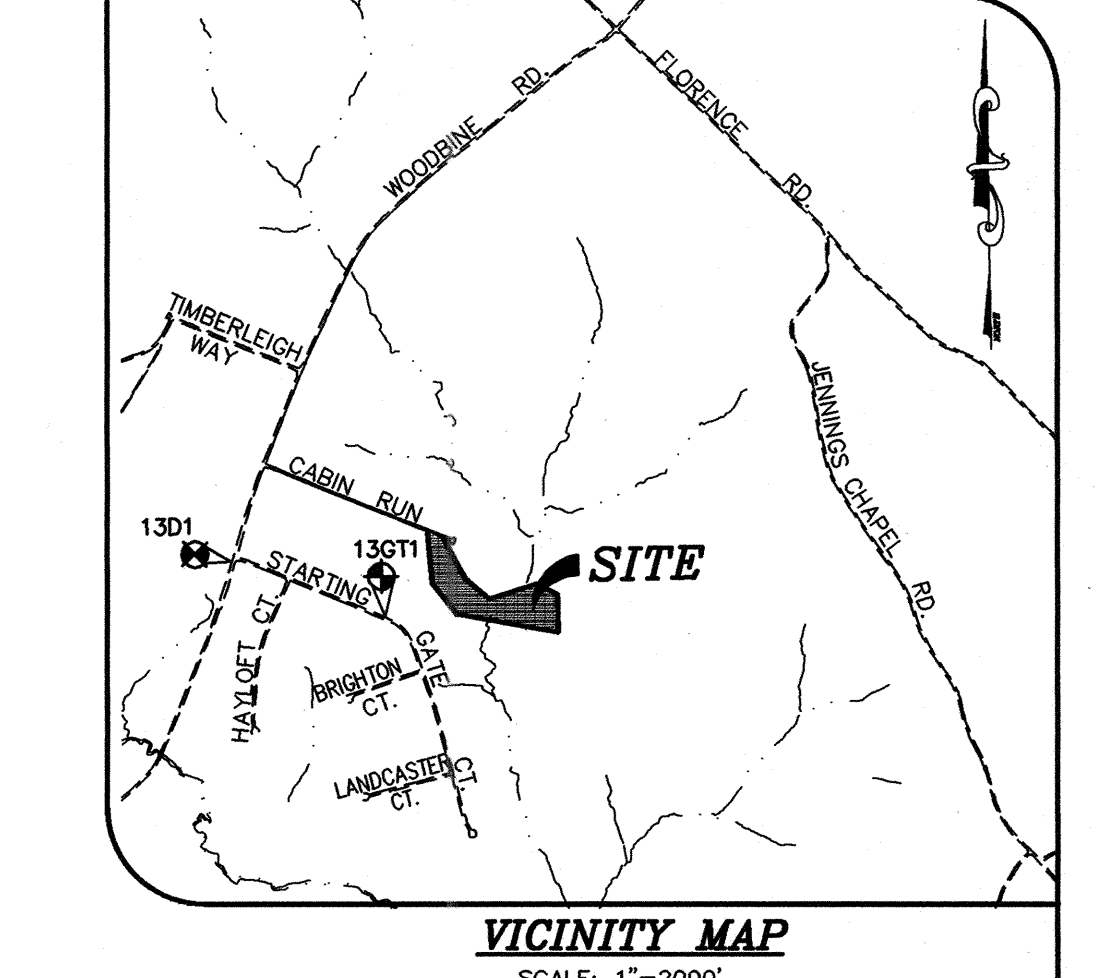
FOREST RETENTION NOTES

- FOREST PROTECTION**
- ALL FOREST RETENTION AREAS SHALL BE TEMPORARILY PROTECTED BY WELL ANCHORED BLAZE ORANGE PLASTIC MESH FENCING AND SIGNAGE AS INDICATED ON THE PLAN. SIGNAGE SHALL BE INSTALLED ALONG THE FOREST RETENTION BOUNDARY PRIOR TO ANY LAND CLEARING, GRUBBING, OR GRADING ACTIVITIES.
 - THE FOREST PROTECTION DEVICES SHALL BE INSTALLED SUCH THAT THE CRITICAL ROOT ZONES OF ALL TREES WITHIN THE RETENTION AREA NOT OTHERWISE PROTECTED WILL BE WITHIN FOREST PROTECTION DEVICES.
 - THE PORTION OF PROPERTY LINE IN THE VICINITY OF THE PROPOSED HOUSE CONSTRUCTION, INCLUDING SILT BENS, SHALL BE USED AS PROTECTIVE FENCING. ALL DEVICES SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION HAS CEASED IN THE IMMEDIATE VICINITY.
 - ATTACHMENT OF SIGNS, OR ANY OTHER OBJECTS TO TREES IS PROHIBITED. NO EQUIPMENT, MACHINERY, VEHICLES, OR EXCESSIVE PEDESTRIAN TRAFFIC SHALL BE ALLOWED WITHIN THESE PROTECTED AREAS.
 - INSTALLATION AND MAINTENANCE OF PROTECTIVE FENCING AND SIGNAGE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL TAKE THE UTMOST CARE TO PROTECT TREE ROOT SYSTEMS DURING ALL CONSTRUCTION ACTIVITIES. TREE ROOT SYSTEMS SHALL BE PROTECTED FROM SMOTHERING, FLOODING, EXCESSIVE WETTING FROM DE-WATERING OPERATIONS, OFF-SITE RUN OFF, SPILLAGE AND DRAINING OF MATERIALS THAT MAY BE HARMFUL TO TREES.
 - THE GENERAL CONTRACTOR SHALL PREVENT PARKING OF CONSTRUCTION VEHICLES AND EQUIPMENT, AND THE STORING OF MATERIALS OR STOCKPILING OF EARTH WITHIN FOREST CONSERVATION EASEMENTS. AREA SHALL BE PROHIBITED.
 - THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY TREES DAMAGED OR DESTROYED WITHIN THE FOREST CONSERVATION EASEMENTS. TREE PRUNING SHALL BE USED AT THE LIMIT OF DISTURBANCE OR LIMIT OF GRADING WITHIN AND ADJACENT TO ALL PRESERVATION AREAS, AS NECESSARY.
- PRE-CONSTRUCTION MEETING**
- AFTER THE BOUNDARIES OF THE FOREST RETENTION AREAS HAVE BEEN FIELD LOCATED AND MARKED, AND AFTER THE FOREST PROTECTION DEVICES HAVE BEEN INSTALLED, BUT BEFORE ANY OTHER DISTURBANCE HAS TAKEN PLACE ON SITE, A PRE-CONSTRUCTION MEETING SHALL TAKE PLACE ON SITE. THE DEVELOPER, CONTRACTOR OR PROJECT MANAGER, AND HOWARD COUNTY INSPECTORS SHALL ATTEND. THE PURPOSE OF THIS MEETING WILL BE:
 - TO IDENTIFY THE LOCATIONS OF THE FOREST RETENTION AREAS, SPECIFIC TREES WITHIN 50 FEET OF THE LIMIT OF DISTURBANCE, LIMITS OF CONSTRUCTION, EMPLOYEE PARKING AREAS AND EQUIPMENT STORAGE AREAS;
 - INSPECT ALL FLAGGED BOUNDARIES AND PROTECTION DEVICES;
 - MAKE ALL NECESSARY ADJUSTMENTS;
 - ASSIGN RESPONSIBILITIES AS APPROPRIATE AND DISCUSS PENALTIES.
- CONSTRUCTION MONITORING**
- THE SITE SHALL BE INSPECTED PERIODICALLY DURING THE CONSTRUCTION PHASE OF THE PROJECT. A QUALIFIED PROFESSIONAL SHALL BE RESPONSIBLE FOR IDENTIFYING DAMAGE TO PROTECTED FOREST AREAS OR INDIVIDUAL TREES WHICH MAY HAVE BEEN CAUSED BY CONSTRUCTION ACTIVITIES, SUCH AS SOIL COMPACTION, ROOT INJURY, TRUNK WOUNDS, LIMB INJURY, OR STRESS CAUSED BY FLOODING OR DROUGHT CONDITIONS. ANY SUCH DAMAGE THAT MAY OCCUR SHALL BE REMEDIATED IMMEDIATELY USING APPROPRIATE MEASURES. SEVERE PROBLEMS MAY REQUIRE CONSULTATION WITH A PROFESSIONAL ARBORIST.
 - THE CONSTRUCTION PROCEDURE SHALL NOT DAMAGE AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE AS DESIGNATED ON THE PLANS. ANY DAMAGE SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE TO THE SATISFACTION OF THE DESIGN TEAM OR ENGINEER.
- SUPERVISION**
- ALL FOREST CONSERVATION ACTIVITIES SHALL BE DONE UNDER THE DIRECT SUPERVISION OF SOMEONE FROM THE DESIGN TEAM OR OTHER QUALIFIED PROFESSIONAL, AS DETERMINED BY THE REQUIREMENTS OF COMAR 08.19.06.01 AND THE MARYLAND DEPARTMENT OF NATURAL RESOURCES.

SCHEDULE A : PERIMETER LANDSCAPED EDGE

CATEGORY	ADJACENT TO PERIMETER PROPERTIES				TOTAL
	A (PERIMETER 1)	A (PERIMETER 2)	A (PERIMETER 3)	A (PERIMETER 4)	
LANDSCAPE TYPE	1269.90 LF	244.34 LF	399.13 LF	1172.66 LF	
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	YES, 123 LF OF EX. TREES (659.90 LF REMAINING)	YES, 123 LF OF EX. TREES (71.34 LF REMAINING, LESS EX. 50' ROW)	YES, 829 LF OF EX. TREES TO REMAIN (0 LF REMAINING)	YES, 829 LF OF EX. TREES TO REMAIN (293.66 LF REMAINING, LESS EX. 50' ROW)	
NUMBER OF PLANTS REQUIRED	11 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	1 SHADE TREE 0 EVERGREEN TREES 0 SHRUBS	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	5 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	8 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS
CREDIT FOR EXISTING VEGETATION	2 SHADE TREES 0 EVERGREEN TREES	N/A	N/A	5 SHADE TREES 0 EVERGREEN TREES	7 SHADE TREES 4 EVERGREEN TREES
NUMBER OF PLANTS PROVIDED	8 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS (10:1 SUBSTITUTION)	0 SHADE TREES 0 SUBSTITUTION TREES 0 SHRUBS	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	8 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 55 SHRUBS

* CREDIT FOR SIX (6) EX. TREES TO REMAIN : TWO (2) EX. 18" PINE, ONE (1) EX. 12" CEDAR, ONE (1) EX. 18" POPLAR, AND ONE (1) EX. 24" POPLAR.
 ** CREDIT FOR ONE (1) SHADE TREE REQUIRED FOR PERIMETER 2 HAS BEEN RELOCATED ALONG PERIMETER 1, SINCE NO DEVELOPMENT IS PROPOSED IN THE VICINITY OF PERIMETER 2.
 *** CREDIT FOR FIVE (5) EX. TREES TO REMAIN : THREE (3) EX. 36" OAKS, ONE (1) EX. 24" POPLAR, AND ONE (1) EX. 18" POPLAR.

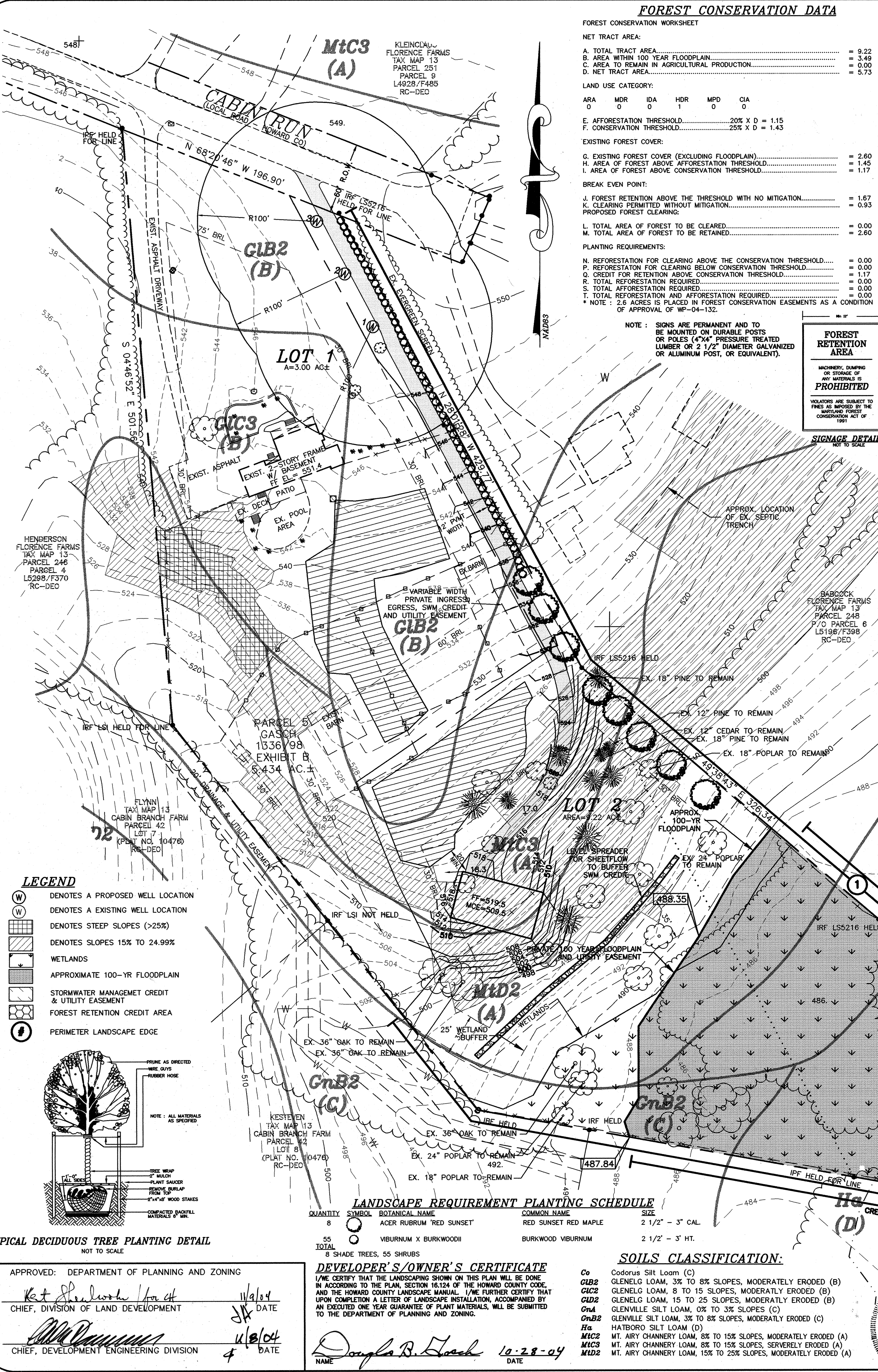


GENERAL NOTES

- TAX MAP: 13, PARCEL: 247, PARCEL 5, BLOCK: 13.
- PROJECT BACKGROUND: TAX MAP: 13, PARCEL: 247, PARCEL 5, BLOCK: 13. ELECTION DISTRICT: 4TH ELECTION DISTRICT. ZONING: RC-DE. DEED REFERENCE: L 1368, F. 317 & L 1336, F. 098. DPZ FILES: N/A.
- AREA TABULATION:

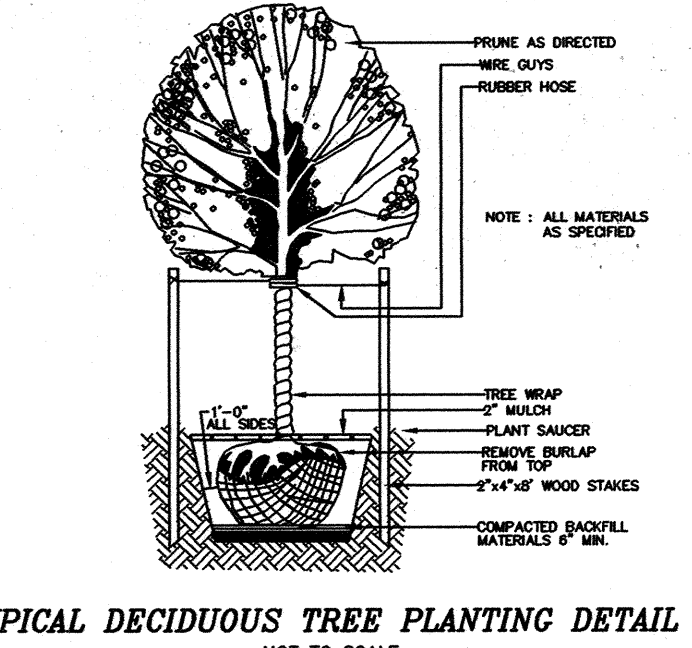
A. TOTAL TRACT AREA:	12.22 AC ±
B. NUMBER OF PROPOSED BUILDABLE LOTS:	2
C. NUMBER OF OPEN SPACE LOTS:	0
D. AREA OF PUBLIC RIGHT-OF-WAY:	0 AC
E. AREA OF BUILDABLE LOTS:	12.22 AC ±
F. MINIMUM LOT AREA:	3.00 AC ±
- THIS PLAN IS SUBJECT TO COUNTY COUNCIL BILL 46-2003, THE AMENDED 5th EDITION SUBDIVISION REGULATIONS, EFFECTIVE OCTOBER 2, 2003, AND TO THE 2004 COMPREHENSIVE ZONING PLAN DATED FEBRUARY 2, 2004.
- SUBJECT PROPERTY ZONED RC-DE RESIDENTIAL PER THE 2/2/04 COMPREHENSIVE ZONING PLAN.
- TOPOGRAPHY SHOWN HEREON IS BASED ON FIELD RUN TOPOGRAPHIC SURVEY CONDUCTED BY MILDBERG BOENDER & ASSOCIATES ON OR ABOUT DECEMBER 2003.
- BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN & MONUMENTED SURVEY BY MILDBERG, BOENDER & ASSOCIATES, INC. ON OR ABOUT SEPT. 2003.
- COORDINATES ARE BASED ON NAD83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS:

STA. No. 13GT1	N 592,553.593	ELEV. 551.082
	E 1,279,148.270	
STA. No. 13D1	N 593,130.886	ELEV. 590.759
	E 1,277,553.13	
- ALL AREAS ARE MORE OR LESS.
- THIS PROPOSED SUBDIVISION WILL CONSIST OF SINGLE FAMILY DETACHED DWELLINGS.
- THE DRIVEWAY INTERSECTION SHALL CONFORM TO HOWARD COUNTY STANDARD DETAIL RD.06.
- NO BURIAL GROUNDS, CEMETERIES OR HISTORIC STRUCTURES ARE LOCATED ON THE SITE.
- WETLANDS SHOWN BASED ON FIELD INVESTIGATION PERFORMED BY ECO-SCIENCE PROFESSIONALS, INC. ON OR ABOUT MARCH 2004.
- APPROXIMATE 100-YR FLOODPLAIN SHOWN BASED ON NON-CRITICAL FLOODPLAIN STUDY PERFORMED ON OR ABOUT MARCH 2004.
- STEEP SLOPES SHOWN BASED ON ANALYSIS PERFORMED BY MILDBERG BOENDER ON OR ABOUT MARCH 2004.
- STORMWATER MANAGEMENT IS PROVIDED VIA SHEETFLOW TO BUFFER AND NON-ROOFTOP DISCONNECT CREDITS IN ACCORDANCE WITH 2000 MARYLAND STORMWATER DESIGN MANUAL. TOTAL WQV CREDIT IS 2,000 CFT AND TOTAL REV CREDIT IS 3,300 SQFT (AREA METHOD).



LEGEND

(W)	DENOTES A PROPOSED WELL LOCATION
(W)	DENOTES AN EXISTING WELL LOCATION
(S)	DENOTES STEEP SLOPES (>25%)
(S)	DENOTES SLOPES 15% TO 24.99%
(W)	WETLANDS
(F)	APPROXIMATE 100-YR FLOODPLAIN
(S)	STORMWATER MANAGEMENT CREDIT & UTILITY EASEMENT
(F)	FOREST RETENTION CREDIT AREA
(E)	PERIMETER LANDSCAPE EDGE



LANDSCAPE REQUIREMENT PLANTING SCHEDULE

QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE
55	ACER RUBRUM RED SUNSET	RED SUNSET RED MAPLE	2 1/2" - 3" CAL.
8	VIBURNUM X BURKWOODI	BURKWOOD VIBURNUM	2 1/2" - 3" HT.

SOILS CLASSIFICATION:

- Co Codorus Silt Loam (C)
- GIB2 GLENELG LOAM, 3% TO 8% SLOPES, MODERATELY ERODED (B)
- GIB2 GLENELG LOAM, 8 TO 15 SLOPES, MODERATELY ERODED (B)
- GIB2 GLENELG LOAM, 15 TO 25 SLOPES, MODERATELY ERODED (B)
- GIB2 GLENVILLE SILT LOAM, OR TO 3% SLOPES (C)
- GIB2 GLENVILLE SILT LOAM, 3% TO 8% SLOPES, MODERATELY ERODED (C)
- GIB2 HATBORO SILT LOAM (D)
- MtC2 MT. ARY CHANNERY LOAM, 8% TO 15% SLOPES, MODERATELY ERODED (A)
- MtC2 MT. ARY CHANNERY LOAM, 15 TO 25 SLOPES, SEVERELY ERODED (A)
- MtD2 MT. ARY CHANNERY LOAM, 15% TO 25% SLOPES, MODERATELY ERODED (A)

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Ret. Stephen Van der ... 10/28/04
 CHIEF, DIVISION OF LAND DEVELOPMENT

... 10/28/04
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

DEVELOPER'S OWNER'S CERTIFICATE

I HEREBY 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 FURTHER CERTIFY THAT UPON COMPLETION A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Douglas B. ... 10-28-04
 NAME DATE

HOWARD COUNTY, MARYLAND
 DEPARTMENT OF RECREATION & PARKS
 TAX MAP 13
 CABIN BRANCH FARM PARCEL 42
 LOT 8B
 RC-DEO

REGISTERED PROFESSIONAL
 LANDSCAPE ARCHITECT
 NAME: ANNE DEMCHIK, RLA NO. 3035
 DATE: 10/28/04

OWNER AND DEVELOPER
 DOUGLAS & LINDA GASCH LTD
 3120 CABIN RUN ROAD
 WOODBINE, MARYLAND 21797
 301-854-6524

project	date	MAP	approval
09-031	APR 04	illustration	RH

description	date	no.
revisions		

GASCH PROPERTY
 TAX MAP 13 - GRID 13 - PARCEL 247 - PARCEL 5
 SUPPLEMENTAL, FOREST CONSERVATION & LANDSCAPE PLAN

HOWARD COUNTY, MARYLAND
 FOURTH ELECTION DISTRICT

MILDBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
 (410) 997-0296 Fax (301) 821-5521 Wash. (410) 997-0298 Fax