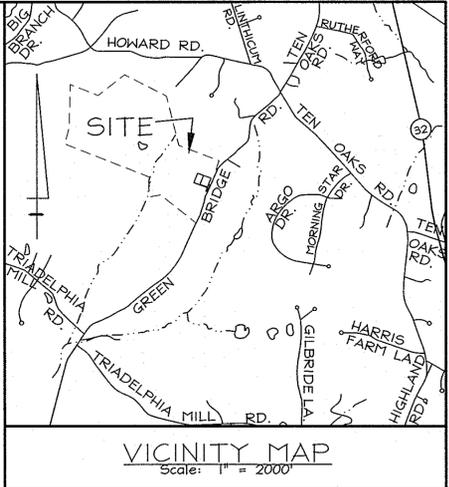


LANDSCAPE SCHEDULE					
SYMBOL	QTY.	COMMON NAME	SCIENTIFIC NAME	SIZE	REMARKS
○	10	Red Maple 'October Glory'	<i>Acer rubrum</i> 'October Glory'	2'-2 1/2" Cal.	B & B

SHEET INDEX	
1.	Supplemental, Landscape & Forest Conservation Plan
2.	Supplemental, Landscape & Forest Conservation Plan
3.	Supplemental, Landscape & Forest Conservation Plan Notes and Details



GENERAL NOTES

- Existing Zoning: RC-DEO Rural Conservation - Density Exchange Option
- Deed Reference: Liber 9174 Folio 322
- Total Area of Lots: 2.00 Ac. +/-
- Existing well and septic areas have been shown within 100 feet of the proposed Lot which affect this proposal.
- The topography shown is taken from Howard County Aerial Topography and the areas within the sewage disposal easements have been field verified.
- Soils data shown based on the Howard County Soil Survey, dated 1968, sheet 17.
- All wells shall be located a minimum of 15' from the road or use-in-common R/W # 30' from houses.
- The lots shown herein comply with the minimum lot area and ownership width as required by the Maryland Department of the Environment.
- The wells for Lot 5, 6 and Parcel 'A' are existing and have been field located. The well for Parcel 'B' shall be drilled prior to signature approval of the Record Plat.
- The Howard County Health Department approved the Percolation Certification Plat for these lots on 5/17/05.

LANDSCAPE NOTES:

- This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code and Howard County Landscape Manual.
- The Owner/Developer is responsible for planting of all material required to meet the standards established by the Howard County Landscape Manual.
- Financial Surety for the required landscaping must be posted as part of the Builder's Grading Permit in the amount of \$ 3,000.00.
- The Owner, Tenant and/or their agents shall be responsible for maintenance of the required landscaping, plant materials, berms, fences and walls. All plant materials shall be maintained in good growing condition, and when necessary, replaced with new materials to ensure continued compliance with applicable regulations. All other required landscaping shall be permanently maintained in good condition, and when necessary, repaired or replaced.
- All plant materials shall conform to the American Associated Nurserymen's publication, American nursery stock.
- No clearing of existing vegetation is permitted within the landscape edge for which credit is being taken; however, landscape maintenance is authorized.
- At the time of installment, all shrubs and other plantings herewith listed and approved for the site, shall be of the proper height requirements in accordance with the Howard County Landscape Manual. In addition, no substitutions or relocation of required plantings may be made without prior review and approval from the Department of Planning and Zoning. Any deviation from the approved Landscape Plan may result in denial or delay in the release of landscape surety until such time as all required materials are planted and/or revisions are made to applicable plans and certificates.

LEGEND

- 570--- Existing 10' (Index) Contours
-572..... Existing 2' Contours
- 572--- Proposed Contours
- Proposed Primary Wells
- Proposed Alternate Wells
- ▨ Proposed Sewage Disposal Easement
- Building Restriction Line
- ▭ Proposed Dwelling
- Ex. Stream
- Ex. Treeline
- Prop. Treeline
- Soil Boundary
- ▨ Steep Slopes (25% or greater)
- ▨ Steep Slopes (15 to 24.9%)
- ▭ Forest Conservation Signage
- Specimen Tree
- ▭ Walk Out Basement

SCHEDULE A PERIMETER LANDSCAPE EDGE		
Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type		A
Linear Feet of Roadway Frontage/Perimeter		891
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)		YES-310 L.F.
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if needed)		NO
Number of Plants Required (Shade Trees, Evergreen Trees, Shrubs)		Using 581 L.F. 160=10
Number of Plants Provided (Shade Trees, Evergreen Trees, Other Trees (2:1 substitution), Shrubs (10:1 substitution) (Describe plant substitution credits below if needed)		10 Shade

LANDSCAPE PERIMETER TABLE				
Perimeter No.	Perimeter Length	Buffer Type	Adjacent Land Use	
	891 L.F.	A	SFD	
Total	891 L.F.			

PROFESSIONAL CERTIFICATION:
 Steve Heiss, 8/22/07
 Steve Heiss, Qualified Professional, MDPCA

PROFESSIONAL CERTIFICATION:
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19184, EXPIRATION DATE: 6/30/09.
 Bruce D. Burton, 8/22/07
 Bruce D. Burton, ENGINEER
 STATE OF MARYLAND
 BRUCE D. BURTON
 8/22/07

DEVELOPER'S / BUILDER'S CERTIFICATION
 I 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.
 Rand J. Carpenter, 08/22/07
 Rand J. Carpenter, DEVELOPER & BUILDER

LDE Inc. Engineers, Surveyors, Planners 9230 Ramsay Road, Suite 106 Columbia, Maryland - 21045 (410)715-1070 - (301)396-3424 - FAX(410)715-9340			
DESIGNED JMB BDB	SUPPLEMENTAL, LANDSCAPE & FOREST CONSERVATION PLAN THE OAKS AT BRIDLE CREEK AGRICULTURAL LAND PRESERVATION LOTS 5, 6, PARCEL 'A' & PARCEL 'B'	SCALE 1" = 50'	
DRAWN JMB		DRAWING 1 OF 3	
CHECKED BDB	Tax Map 28 Grid 7 Parcel 13 5th Election District - Howard County, Maryland Previous Submittals: WPO6-004, F06-014, F07-134, WPO8-010	JOB NO. 05-005.5	
DATE 8/2007	DEVELOPER 13825 HOWARD ROAD LLC 13825 Howard Road Dayton, MD 21036	FILE NO.	

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division
 9/5/07
 DATE

Chief, Division of Land Development
 9/5/07
 DATE

SOILS LEGEND		
SYMBOL	NAME	SLOPE CHARACTERISTICS
Ba	Boile silt loam	
ChB2	Chester silt loam, 3 to 8% slopes/moderately eroded	
CiC3	Chillum gravelly loam, 5 to 10% slopes/severely eroded	
CuB	Comus silt loam, local alluvium, 3 to 8% slopes	
G1A	Glencig loam, 0 to 3% slopes	
G1B2	Glencig loam, 3 to 8% slopes, moderately eroded	
G1C2	Glencig loam, 8 to 15% slopes, moderately eroded	
G1C3	Glencig loam, 8 to 15% slopes, severely eroded	
GnB2	Glennville silt loam, 3 to 8% slopes/moderately eroded	
M1B2	Manor loam, 3 to 8% slopes, moderately eroded	
M1C2	Manor loam, 8 to 15% slopes, moderately eroded	
M1C3	Manor loam, 8 to 15% slopes, severely eroded	
M1D2	Manor loam, 15 to 25% slopes, moderately eroded	
M1D3	Manor loam, 15 to 25% slopes, severely eroded	

NOTE: Soil types shown on this legend reflect mapping units shown on forest stand delineation plan sheet 4 of 5.
 Taken from Soils Map #17 USDA Soil Survey Howard County, MD

P:\05-005-004\05-005-5_SUPP_Ang_SUPP_DOCUMENTAL_Plan_8/21/07 2:55:09 PM

FOREST PROTECTION PROCEDURES - PRECONSTRUCTION PHASE

Protection of the Forest Edge

1.) The edge of the woods to be protected will be marked (staked or flagged) in the field per the limits of disturbance shown in the approved Site Development Plan prior to the start of construction activity. All areas within protective fences are to be considered "off limits" to any construction activities. The protective fencing shall be installed at the outside edge of forested areas and specimen trees to be retained and should be combined with sediment control devices when possible. The limit of the critical root zone and therefore the location of the protective devices is to be determined as follows:

Edge of Forested Area - 1 foot of protective radius/inch of DBH or an eight foot protective radius, whichever ever is greater.

2.) Construction activities expressly prohibited within the preservation areas are:

- Placing or stockpiling backfill or top soil in protected areas
- Falling trees into protected area
- Driving construction equipment into or through protected areas
- Burning in or in close proximity to protected areas
- Stacking or storing supplies of any kind
- Concrete wash-off areas
- Conducting trenching operations
- Grading beyond the limits of disturbance
- Parking vehicles or construction equipment
- Removal of root mat or topsoil
- Siting and construction of:
 - Utility lines
 - Access roads
 - Impervious surfaces
 - Stormwater management devices
 - Staging areas

3.) Protective fencing (see Figure "Protective Fencing") shall be the responsibility of the general contractor. The general contractor shall affix signs to the fencing at 25' minimum intervals indicating that these areas are "Forest Retention Area" or "Specimen Trees" (see Figures "Signage"). The general contractor shall take great care to ensure the restricted areas are not violated and that root systems are protected from smothering, flooding, excessive wetting from de-watering operations, off-site run-off, spillage, and drainage or solutions containing materials hazardous to tree roots.

- 4.) The general contractor shall be responsible for any tree damaged or destroyed within the preservation areas whether caused by the contractor, his agents, employees, sub-contractors, or licensees.
- 5.) Foot traffic shall be kept to a minimum in the protective areas.
- 6.) All trees which are not to be preserved within fifty feet of any tree preservation areas are to be removed in a manner that will not damage those trees that are designated for preservation. It is highly recommended that tree stumps within this fifty foot area be ground out with a stump grinding machine to minimize damage.
- 7.) The general contractor shall designate a "wash out" area on-site for concrete trucks which will not drain toward a protected area.
- 8.) A pre-construction meeting shall be held with local authorities before any disturbance has taken place on site.

FOREST PROTECTION PROCEDURES - CONSTRUCTION PHASE

Forest and tree conditions should be monitored during construction and corrective measures taken when appropriate.

The following shall be monitored:

- a.) Soil compaction
- b.) Root injury - prune and monitor; consider crown reduction
- c.) Limb injury - prune and monitor
- d.) Flooded conditions - drain and monitor; correct problem
- e.) Drought conditions - water and monitor; correct problem
- f.) Other stress signs - determine reason, correct and monitor

FOREST PROTECTION PROCEDURES - POST CONSTRUCTION PHASE

The following measures shall be taken:

- 1.) Corrective measures if damages were incurred due to negligence:
 - a.) Stress reduction
 - b.) Removal of dead or dying trees. This may be done only if trees pose an immediate safety hazard
- 2.) Removal of temporary structures:
 - a.) No burial of discarded materials will occur on-site within the conservation area.
 - b.) No open burning within 200 feet of a wooded area.
 - c.) All temporary forest protection structures will be removed after construction.
 - d.) Remove temporary roads by removing stone or broadcasting mulch; pre-construction elevation should be maintained.
 - e.) Aerate compacted soil.
 - f.) Replant disturbed sites with trees, shrubs and/or herbaceous plants.
 - g.) Retain signs for retention areas or specimen trees.
 - h.) A County official shall inspect the entire site.
- 3.) Future protection measures:
 - a.) Howard County shall accept the dedication of the appropriate forest protection easements.

FOREST CONSERVATION EASEMENT STANDARD NOTES:

The Forest Conservation Easement has been established to fulfill the requirements of Section 16.1200 of the Howard County Code, Forest Conservation Act. 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.

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- e.) Drought conditions - water and monitor; correct problem
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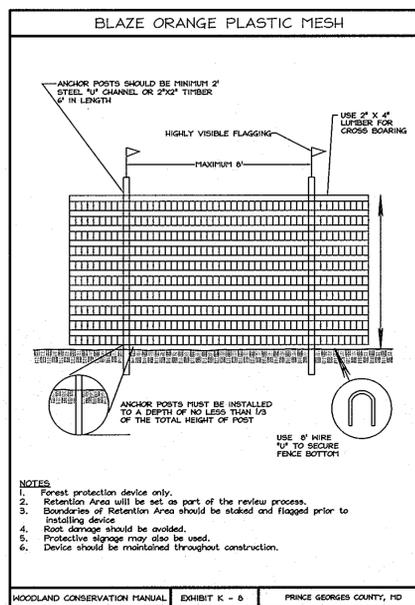
FOREST PROTECTION PROCEDURES - POST CONSTRUCTION PHASE

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 - a.) Stress reduction
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FOREST CONSERVATION WORKSHEET
VERSION 1.0
(Enter in Yellow Cells)

NET TRACT AREA:

A. Total tract area.....	2.00
B. Area within 100 year floodplain.....	0.00
C. Area to remain in agricultural production.....	0.00
D. Net tract area.....	2.00

LAND USE CATEGORY: (from table 3.2.1, page 40, Manual)

Input the number "1" under the appropriate land use zoning, and limit to only one entry.

ARA	MDR	IDA	HDR	MPD	CIA
0	1	0	0	0	0

E. Afforestation Threshold.....	20% x D =	0.40
F. Conservation Threshold.....	25% x D =	0.50

EXISTING FOREST COVER:

G. Existing forest cover (excluding floodplain).....	2.00
H. Area of forest above afforestation threshold.....	1.60
I. Area of forest above conservation threshold.....	1.50

BREAK EVEN POINT:

J. Forest retention above threshold with no mitigation.....	0.80
K. Clearing permitted without mitigation.....	1.20

PROPOSED FOREST CLEARING:

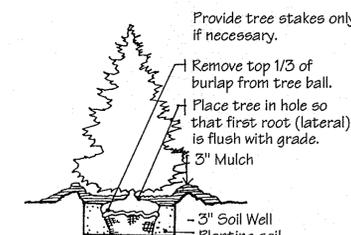
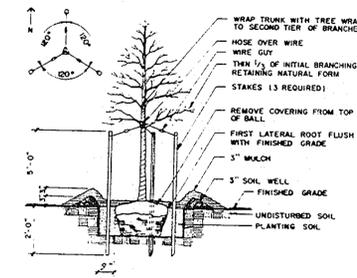
L. Total area of forest to be cleared.....	2.00
M. Total area of forest to be retained.....	0.00

PLANTING REQUIREMENTS:

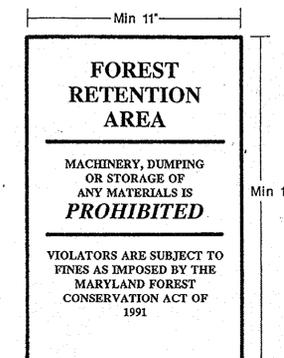
N. Reforestation for clearing above conservation threshold.....	0.375	1.0	0.0
P. Reforestation for clearing below conservation threshold.....	1.00		
Q. Credit for retention above conservation threshold.....	0.00		
R. Total reforestation required.....	1.375	1.0	1.0
S. Total afforestation required.....	0.00		
T. Total reforestation and afforestation required.....	1.375		

NOTE:
SINCE THE FOREST CONSERVATION EASEMENT WILL BE PLACED ON THE RESIDUE PARCEL, THE OBLIGATION WILL BE AT A 2:1 RATIO OR 2.75 ACRES. THE FOREST CONSERVATION OBLIGATION FOR THIS PROJECT WILL BE MET BY CREATION OF 2.75 ACRES OF FOREST CONSERVATION EASEMENT (ACRES OF RETENTION OF EXISTING FOREST). IN ACCORDANCE WITH WP-08-010, THE DEVELOPER SHALL PROVIDE ONE (1) ACRE OF ADDITIONAL FOREST CONSERVATION RETENTION EASEMENT, FOR A TOTAL OBLIGATION OF 3.75 ACRES, IN LIEU OF PAYMENT OF \$23,958.00 FOREST CONSERVATION SURETY AS PART OF A DEVELOPER AGREEMENT.

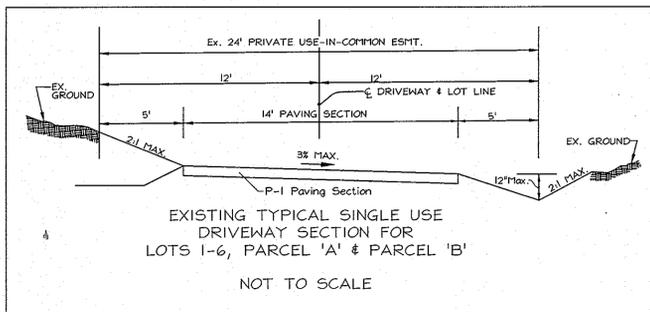
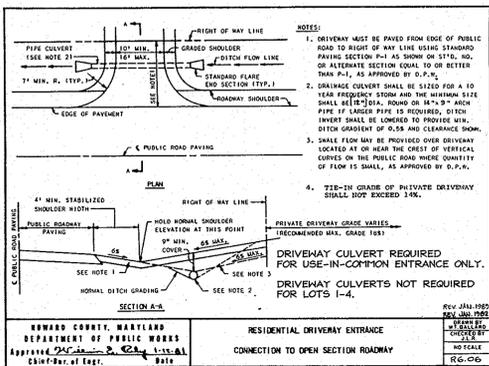
Figure 6-1. Planting Detail - Deciduous Tree



Evergreen Tree Planting Detail
Not to Scale



SIGNAGE
NOT TO SCALE

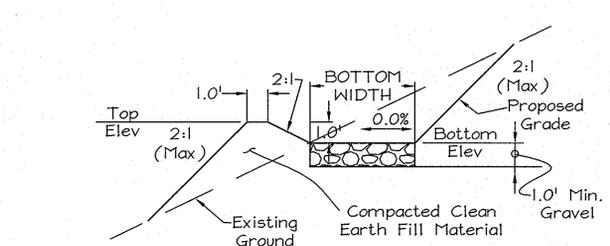


SECTION NUMBER	ROAD AND STREET CLASSIFICATION	PAVEMENT MATERIALS	
		FULL DEPTH BIT. CONC. ALTERNATE	GRANULAR BASE ALTERNATES
P-1	PARKING BAYS APARTMENTS AND COMMERCIAL-INDUSTRIAL ZONES WITH NO HEAVY TRUCKS TRAVELWAYS FOR APARTMENTS AND COMMERCIAL INDUSTRIAL ZONES WITH NO HEAVY TRUCK	1" BIT. CONC. SURFACE 4" BIT. CONC. BASE	1" BIT. CONC. SURFACE 2" BIT. CONC. BASE 4" GRADED AGGREGATE BASE (GAB)
*TRAVELWAYS ARE DEFINED AS THE ROADWAYS LEADING TO THE PARKING BAYS. *HEAVY TRUCKS ARE DEFINED AS THOSE WITH 6 WHEEL OR MORE INCLUDING GARBAGE TRUCKS.		REV. OCT. 1990	REV. JAN. 1999 REV. JAN. 1982
HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS Approved <i>[Signature]</i> 1-12-81 Chief-Bur. of Engr. Date		PAVING SECTIONS P-1 THROUGH P-4 DRAWN BY W. T. BAILLARD CHECKED BY J. L. B. NO SCALE R-2.01	

PROFESSIONAL CERTIFICATION:
[Signature] 8/22/07
Steve Heiss, Qualified Professional, MDFA

LEVEL SPREADER TABLE

NO.	BOTTOM LENGTH	BOTTOM WIDTH	TOP ELEV.	BOTTOM ELEV.
1	30'	8'	550.00	549.00



Level Area, Slopes and Berm to Be Permanently Stabilized with Grass (K31)
Level Spreader Detail
N.T.S.

LDE Inc.
Engineers, Surveyors, Planners
9250 Ramsay Road, Suite 106 Columbia, Maryland - 21045
(410)715-1070 - (800)596-3424 - FAX(410)715-9240

DESIGNED	BDB	SUPPLEMENTAL, LANDSCAPE AND FOREST CONSERVATION PLAN NOTES & DETAILS	SCALE	As Shown
DRAWN	LDE	THE OAKS AT BRIDLE CREEK	DRAWING	3 OF 3
CHECKED	BDB	AGRICULTURAL LAND PRESERVATION LOTS 5, 6, PARCEL 'A' & PARCEL 'B'	JOB NO.	05-005.5
DATE	8/2007	Tax Map 28 Grid 7 Parcel 13 5th Election District - Howard County, Maryland Previous Submittals: WP06-004, F06-014, F07-134, MP06-010	DEVELOPER	13825 HOWARD ROAD LLC 13825 Howard Road Dayton, MD 21036

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 9/5/07
CHIEF, DEVELOPMENT ENGINEERING DIVISION
[Signature] 7/5/07
CHIEF, DIVISION OF LAND DEVELOPMENT