Anthony G. Brown Lt. Governor



Margaret G. McHale Chair

Ren Serey
Executive Director

STATE OF MARYLAND CRITICAL AREA COMMISSION CHESAPEAKE AND ATLANTIC COASTAL BAYS

1804 West Street, Suite 100, Annapolis, Maryland 21401 (410) 260-3460 Fax: (410) 974-5338 www.dnr.state.md.us/criticalarea/

February 12, 2010

Mr. Steve Dodd
Dorchester County Planning and Zoning
County Office Building
P.O. Box 307
Cambridge, Maryland 21613

Re: Local case number 914A – Howard Trust

Dear Mr. Dodd:

I have received revised information for the above-referenced project. The applicant has resubmitted a preliminary subdivision plat for a two-lot subdivision. The project notification form indicates that there are 68.2 acres located in the Resource Conservation Area (RCA). Based on the information provided, I have the following comments:

Buffer

- 1. It is unclear from the submittal how much Buffer establishment is necessary. In one portion of the site plan the planting area is specified as 1.81 acres; however, another table indicates that the total area within the 100-foot Buffer is 2.125 acres. For these purposes, it is the assumption of this office that 2.125 acres is the correct area necessary for Buffer establishment on the two development lots (Lot 2 and 3).
- 2. On February 3, 2010, the Critical Area Commission finalized and approved Buffer regulations. It is anticipated that the regulations will be published in the Maryland Register as final at the end of February, resulting in an effective date of March 8, 2010. As this is a preliminary subdivision plat, it appears that the plat will not be recorded by March 8th. The new Buffer regulations will therefore apply to this subdivision. One component of the Buffer regulations requires an applicant to provide a Buffer Management Plan at the time of application (COMAR 27.01.09.01-2.A) and includes specific requirements for mitigation planting and Buffer establishment. To assist the applicant in applying the new Buffer regulations to this subdivision, we provide the following as applicable to establishment of the Buffer on proposed lots 2 and 3:

- a. At least 25% of the 2.125 acres must be planted in landscape stock ($.25 \times 2.125 = 0.53$ acres). These plantings must adhere to the landscape stock standards, which include both caliper and height requirements.
 - i. As currently submitted, the landscape stock planting table requires multiple revisions so as to be in conformance with the Buffer regulations. (For example, to obtain credit for the Eastern Red Cedar trees as landscape stock, they must be a minimum of 1-inch in caliper and 6 feet in height.) When the landscape stock table is revised to match the Buffer regulations, the applicant is able to obtain 0.48 acres of credit for landscape stock based on the stock and sizes currently proposed. To meet the minimum 25% landscape stock requirement, 0.05 acres of additional plantings must be provided or revisions to the sizes of those planting proposed must be made.
 - ii. Please have the applicant update the proposed planting table to reflect the requirements of the Buffer regulations.
- b. Up to 75% of the 2.125 acres $(0.75 \times 2.125 = 1.6 \text{ acres})$ may be planted in flexible stock options. However, the table provided must also be revised.
 - i. As shown, the applicant is proposing 150 seedling shrubs. The Buffer regulations do not provide for planting credits associated with seedling shrubs.
 - ii. When recalculated without the shrub seedlings, the seedling stock chart provides a total of 29,558 square feet of credit.
- c. Total planting credits as proposed equate to 1.6 acres when the Buffer regulations are applied. The applicant must provide an additional 0.96 acres to meet the 2.125 acre Buffer establishment requirement on Lots 2 and 3.
- d. The Buffer regulations require a survivability rate for the seedlings of 50% at the end of 5 years.
- c. This forested Buffer must be placed in a protective easement or restrictive covenant and protective signage is necessary.
- 3. The applicant is currently providing a 100-foot Buffer on the site plan. It is our understanding that the applicant submitted an application for subdivision prior to July 1, 2008 (on June 26, 2008). Please note that Ch. 119, 2008 Laws of Maryland at 765 contains provisions in regards to a new 200-foot Buffer which may be applicable to this subdivision. Under these provisions, a subdivision located in the RCA must provide a new 200-foot Buffer *unless* an application for subdivision was submitted before July 1, 2008 *and* is legally recorded by July 1, 2010. Should the applicant fail to have the subdivision plat recorded by the July 1, 2010 deadline, then a 200-foot Buffer will apply to this project. Please ensure that the applicant is aware of this requirement as stated in Chapter 119 of the 2008 Laws of Maryland.

Other Comments

4. The preliminary plat provided shows a residue parcel (P/O Residue Parcel) in the southeastern portion of the site. It appears that this is a part of the residue from Deed Parcel 2, but that no development rights remain within the Critical Area portion of the residue. In order to retain the residue parcel as a stand-alone parcel in the Critical Area without an accompanying RCA

Mr. Steve Dodd 2/12/2010 Page 3 of 3

development right, the parcel must be permanently restricted from future development by being placed within an easement.

- 5. Note 18 should be changed to indicate that Delmarva Fox Squirrel is known to be located on site or in the vicinity, but that no forested area is proposed to be removed as part of this proposal, therefore no adverse affect is anticipated.
- 6. Future submittals should contain information regarding proposed lot coverage onsite. Please note that each lot is limited to 15% lot coverage.

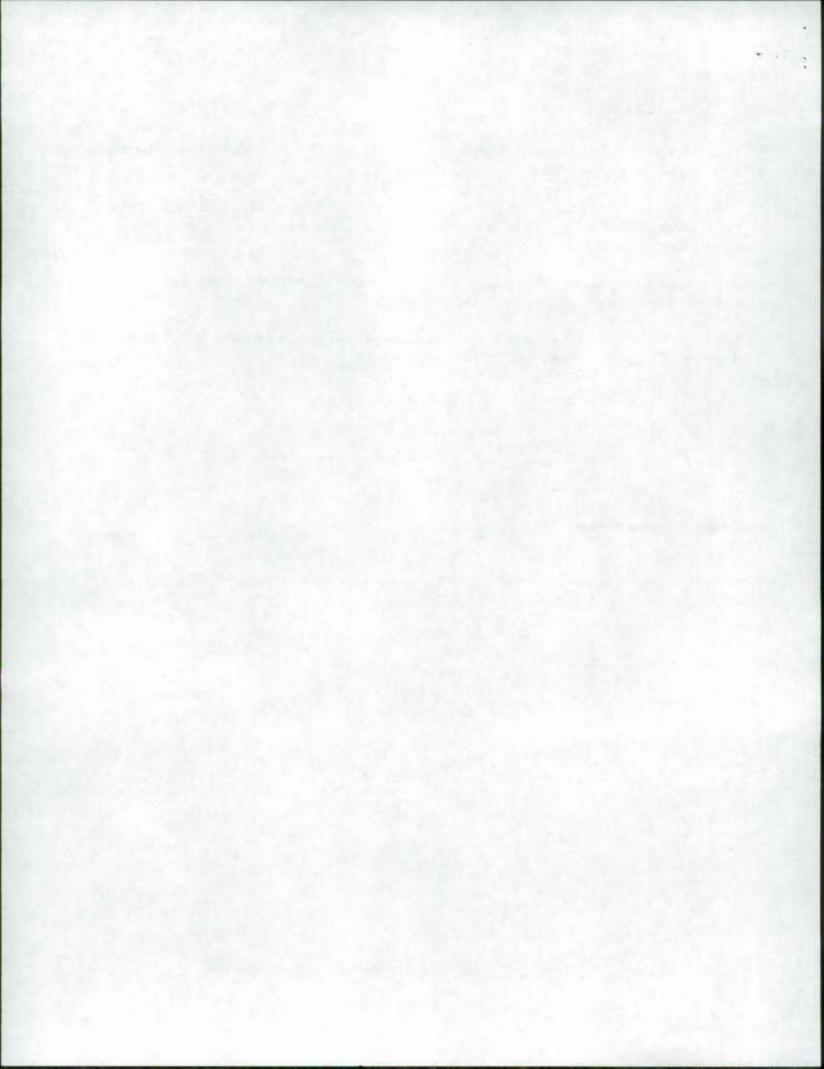
Please let me know if you have questions on the comments provided. Commission staff would be glad to assist the County in application of the Buffer regulations to this subdivision request if necessary. I can be reached at 410-260-3476.

Sincerely,

Julie Roberts

Natural Resources Planner

Cc: DC 430-08



Anthony G. Brown Lt. Governor



Margaret G. McHale Chair

Ren Serey
Executive Director

STATE OF MARYLAND CRITICAL AREA COMMISSION CHESAPEAKE AND ATLANTIC COASTAL BAYS

1804 West Street, Suite 100, Annapolis, Maryland 21401 (410) 260-3460 Fax: (410) 974-5338 www.dnr.state.md.us/criticalarea/

April 28, 2010

Mr. Steve Dodd Dorchester County Planning and Zoning County Office Building P.O. Box 307 Cambridge, Maryland 21613

Re: Local case number 914A – Howard Trust

Dear Mr. Dodd:

I have received revised information for this two-lot subdivision plat in the Resource Conservation Area (RCA). The applicants have also included a Buffer Management Plan (BMP) which appears to meet the regulations outlined under COMAR 27.01.09.01. My remaining comment is that the paths to the proposed piers may only be 3' wide and not 6' wide. This must be amended on the plat.

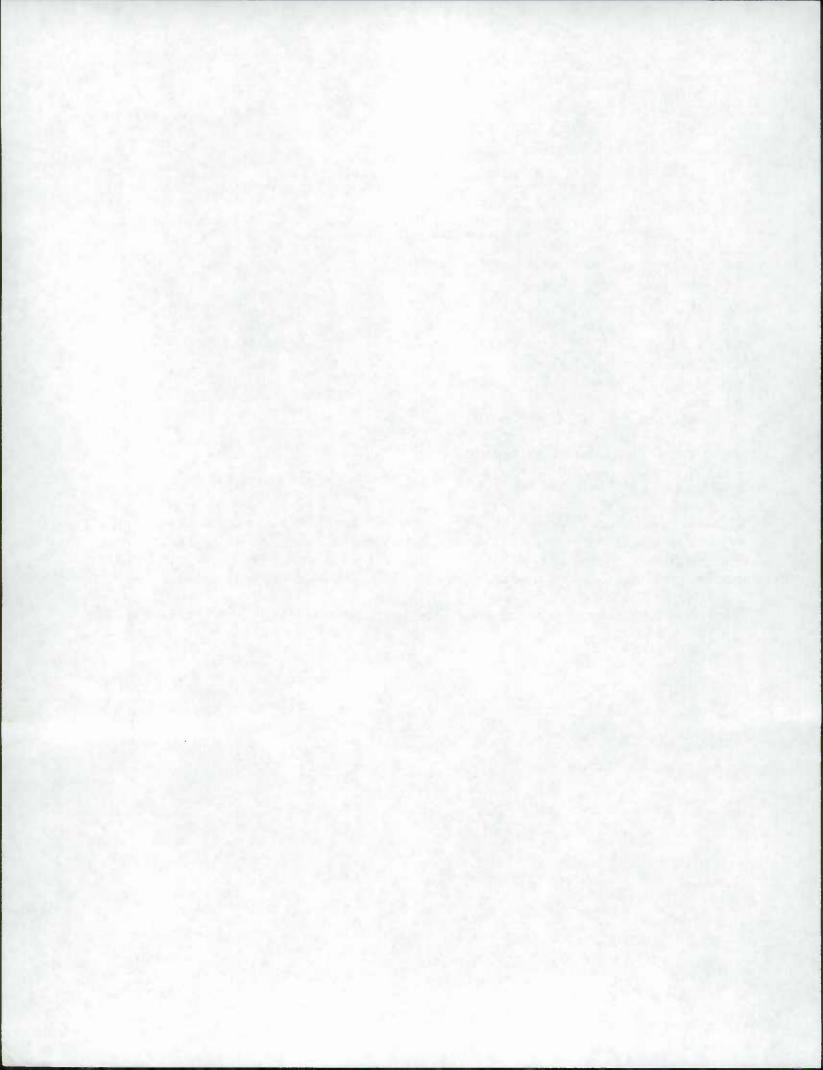
We have no further comments on this project. I can be reached at 410-260-3476 with any questions.

Sincerely,

Julie Roberts

Natural Resources Planner

Cc: DC 431-08



Anthony G. Brown
Lt. Governor



Margaret G. McHale Chair

Ren Serey
Executive Director

STATE OF MARYLAND CRITICAL AREA COMMISSION CHESAPEAKE AND ATLANTIC COASTAL BAYS

1804 West Street, Suite 100, Annapolis, Maryland 21401 (410) 260-3460 Fax: (410) 974-5338 www.dnr.state.md.us/criticalarea/

October 8, 2009

Mr. Steve Dodd
Dorchester County Planning and Zoning
County Office Building
P.O. Box 307
Cambridge, Maryland 21613

Re: Local case number 914A – Howard Trust

Dear Mr. Dodd:

I have received revised information for the above-referenced project. The applicant has resubmitted a preliminary subdivision plat for a two-lot subdivision. The project notification form indicates that there are 68.2 acres located in the Resource Conservation Area (RCA). Based on the information provided, I have the following comments:

- 1. Many of my comments from my July 25, 2008 letter were not addressed and will be repeated in this letter. The applicant has amended their submission and now requests a subdivision of property. The applicant has provided sufficient area "in reserve" (30 acres) for the two proposed 5-acre parcels.
- 2. The existing dwelling must be removed prior to subdivision recordation. Please have the applicant add a note to the plat to that effect.
- 3. Once recorded, the lands with the reserved development rights cannot be moved or revised. Please have the applicant add a note to the plat to that effect.
 - a. In addition, how the "part of" lots are labeled appear to be inconsistent and are confusing. Please have the applicant amend these labels as appropriate.
- 4. The applicant has included Critical Area Forest Calculations.
 - a. It is unclear what the "area changing land use" section is referring to, and therefore, to understand how the forestation requirements are met. Equally, this section indicates that 3.45 acres, or 35%, of the 68.196 acres in the Critical Area is currently forested. 3.45 acres is only 5% of the total acreage in the Critical Area. Please have the applicant amend this table

- b. Per COMAR 27.01.02.04, the applicant is responsible for establishing 15% forest cover on this site, or 10.23 acres, at the time of building permit. Additionally, this forest must be placed in a protective easement or restrictive covenant.
- 5. A letter from the Department of Natural Resources' Wildlife and Heritage Service has been received, indicating that there is Delmarva Fox Squirrel habitat on site. The applicant is required to address any recommendations made by DNR for protections of the species and submission of a Habitat Protection Plan (HPP) will be required.
- 6. Future submittals should contain information regarding proposed clearing, if applicable, and proposed lot coverage onsite. Please note that each lot is limited to 15% lot coverage.
- 7. No topography or soil delineation information has been provided on the plat. The Buffer may need to be expanded for contiguous hydric or highly erodible soils. Please have the applicant include this information in the next submittal.
- 8. As this subdivision was submitted after July 1, 2008 (was received by this office July 15, 2008), a 200-foot Buffer must be established. A Buffer Management Plan must be provided to County for review and comment in fulfillment of this requirement.
- 9. As there will no longer be a dwelling on the residue parcel or the reserved development rights lands, who will the pier service? Please have the applicant clarify.

Please forward the revised subdivision plat when it becomes available. I can be reached at 410-260-3476 with any questions.

Sincerely,

Julie Roberts

Natural Resources Planner

Cc: DC 430-08

Anthony G. Brown



Margaret G. McHale

Ren Serey
Executive Director

STATE OF MARYLAND CRITICAL AREA COMMISSION CHESAPEAKE AND ATLANTIC COASTAL BAYS

1804 West Street, Suite 100, Annapolis, Maryland 21401 (410) 260-3460 Fax: (410) 974-5338 www.dnr.state.md.us/criticalarea/

July 25, 2008

Mr. Steve Dodd
Dorchester County Planning and Zoning
County Office Building
P.O. Box 307
Cambridge, Maryland 21613

Re: Local case number 914A – GST Exempt Trust, Et al.

Dear Mr. Dodd:

I have received the information for the above-referenced project. The applicant has submitted a preliminary subdivision plat for a two-lot intrafamily transfer. The project notification form indicates that there are 68.2 acres located in the Resource Conservation Area (RCA). Based on the information provided, I have the following comments:

- 1. Although the application indicates that a two-lot intrafamily transfer is requested by the applicant, it does not appear that they meet the qualifications for intrafamily transfer. COMAR § 8-1808 indicates that "a parcel that is 12 acres or more and less than 60 acres in size may be subdivided into 3 lots." The parent parcel in this case is over 60 acres in size (68.2 acres) and therefore, does not appear to qualify for intrafamily transfer. Additionally, this property was last subdivided in 1999.
- 2. However, it appears that the applicant has the required density to obtain the total of 3 lots requested for this site (Lot 1 is currently existing, Lots 2 and 3 are proposed). The applicant has provided sufficient area "in reserve" (30 acres) for the two proposed 5-acre parcels.
- 3. The existing dwelling must be removed prior to subdivision recordation. Please have the applicant add a note to the plat to that effect.
- 4. Once recorded, the lands with the reserved development rights cannot be moved or revised. Please have the applicant add a note to the plat to that effect.
- 5. The applicant has included Critical Area Forest Calculations.

- a. It is unclear what the "area changing land use" section is referring to, and therefore, to understand how the forestation requirements are met. Equally, this section indicates that 3.45 acres, or 35%, of the 68.196 acres in the Critical Area is currently forested. 3.45 acres is only 5% of the total acreage in the Critical Area. Please have the applicant amend this table
- b. Per COMAR 27.01.02.04, the applicant is responsible for establishing 15% forest cover on this site, or 10.23 acres, at the time of building permit. Additionally, this forest must be placed in a protective easement or restrictive covenant.
- 6. The applicant must provide a letter from the Department of Natural Resources' Wildlife and Heritage program indicating the presence of any rare, threatened, or endangered species on site. Our records indicate that there may be a sensitive species located in the vicinity of the applicant's parcels. If present, the applicant will be required to address any recommendations made by DNR for protections of the species and submission of a Habitat Protection Plan (HPP) will be required.
- 7. Future submittals should contain information regarding proposed clearing, if applicable, and proposed lot coverage onsite. Please note that each lot is limited to 15% lot coverage.
- 8. No topography or soil delineation information has been provided on the plat. The Buffer may need to be expanded for contiguous hydric or highly erodible soils. Please have the applicant include this information in the next submittal.
- 9. If not currently established, the 100-foot Buffer must be established in native species on Lots 2 and 3 at the time of building permit, or preferably at the time of subdivision recordation. A Buffer Management Plan must be provided to County for review and comment in fulfillment of this requirement.
- 10. As there will no longer be a dwelling on the residue parcel or the reserved development rights lands, who will the pier service? Please have the applicant clarify.

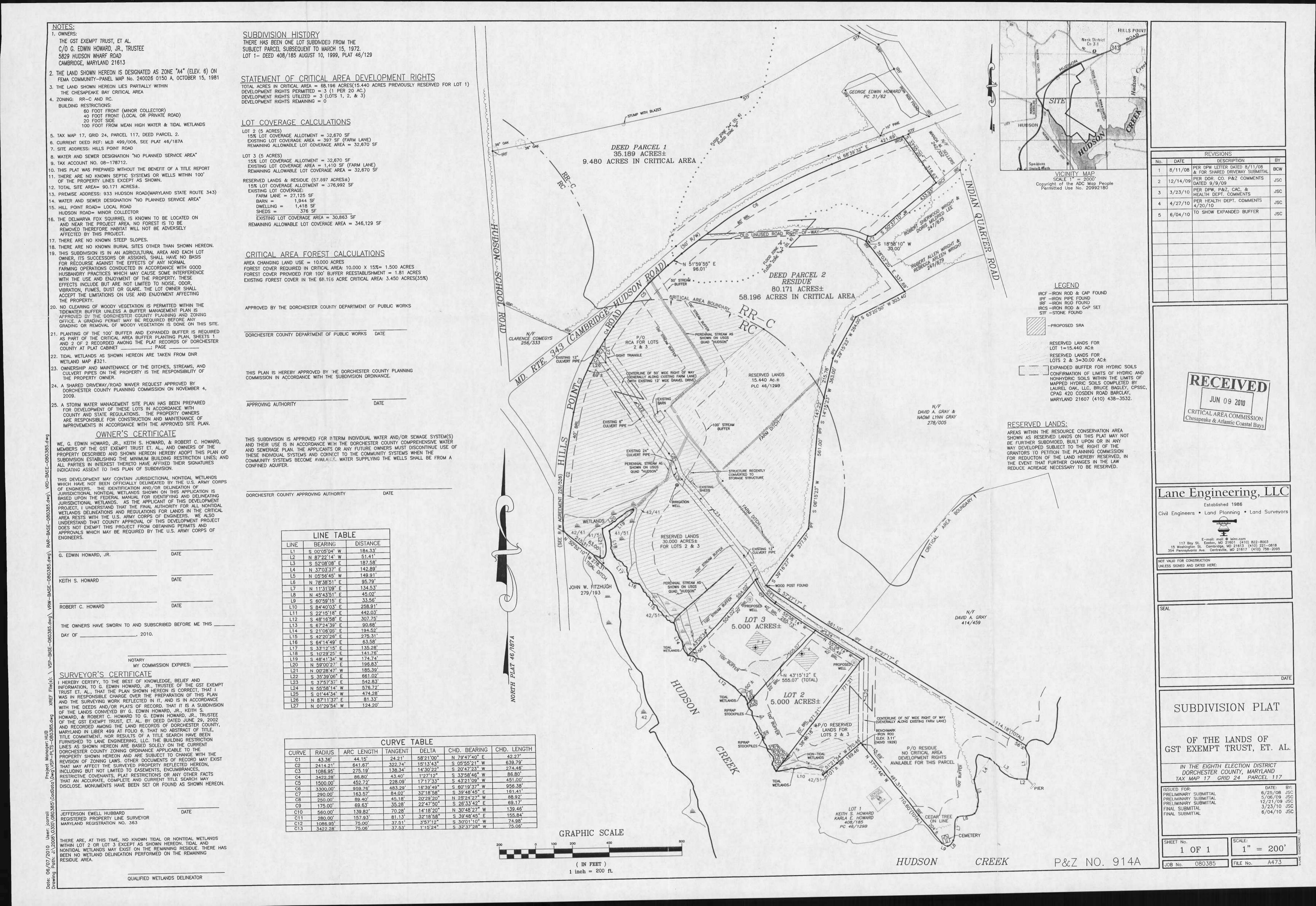
Please forward the revised subdivision plat when it becomes available. I can be reached at 410-260-3476 with any questions.

Sincerely,

Julie Roberts

Natural Resources Planner

Cc: DC 430-08



PROPERTY ADDRESS: 933 HUDSON ROAD

CAMBRIDGE, MARYLAND 21613

10.000 ACRES TOTAL, 10.000 ACRES IN CRITICAL AREA

THE ESTABLISHMENT OF THE 15% REQUIRED FOREST COVER AND BUFFER ESTABLISHMENT.

2.144 ACRES (2.1 ACRES) INCLUDING 1.5 ACRES FOR THE 15% REQUIRED COVERAGE PLANTING AREA: AFFORESTATION SQUARE FOOTAGE FOR BUFFER ESTABLISHMENT: 78,408 SQUARE FEET

EXISTING CONDTIONS: THE SITE IS CURRENTLY UNDEVELOPED AND UNFORESTED.

PLAN PURPOSE: THE STATE OF MARYLAND AND DORCHESTER COUNTY CRITICAL AREA REGULATIONS REQUIRE THE ESTABLISHMENT OF THE NON-FORESTED, UPLAND, NON-AGRICULTURAL LAND USE PORTIONS OF THE CRITICAL AREA BUFFER AND EXPANDED BUFFER UPON CHANGE OF LAND USE. ADDITIONALLY, THESE REGULATIONS REQUIRE THE REPLACEMENT OF NON-BUFFER FOREST CLEARED FOR DEVELOPMENT ACTIVITIES UPON CHANGE OF LAND USE. A FOREST PRESERVATION/BUFFER MANAGEMENT PLAN DETAILING LANDSCAPE INSTALLATIONS, MAINTENANCE AND LONG TERM PROTECTION COMPLIANCE WITH THESE REGULATIONS IS REQUIRED AT THE TIME OF SUBDIVISION.

THIS FOREST PRESERVATION/BUFFER MANAGEMENT PLAN PROPOSES:

1. TO FULLY ESTABLISH (AFFOREST) THE UPLAND, NON-FORESTED PORTIONS OF THE BUFFER OR EXPANDED BUFFER IN ACCORDANCE WITH COMAR 27.01.09.01-1.B. (1) - "CREATION OF A NEW SUBDIVISION OR NEW LOT"-BUFFER ESTABLISHMENT-AFFORESTATION REQUIREMENTS:

TOTAL BUFFER AND EXPANDED BUFFER ACREAGE: LESS BUFFER EXISTING IN FOREST OR WETLANDS: LESS BUFFER EXISTING IN NATIVE VEGETATION	2.512 AC. 0.012 AC.
ALONG SHORELINE:	0.337 AC.
LESS BUFFER AREA TO REMAIN UNPLANTED FOR 3' WIDE PATHS TO PIERS:	0.019 AC.

BUFFER TO BE ESTABLISHED / AFFORESTED: 2.144 AC. (2.2 AC.±) PLANTING REQUIREMENTS (COMAR 27.01.09.01-2.G): ESTABLISHMENT- GREATER THAN 1 ACRES TO LESS THAN OR

AT LEAST 25% OF AREA IN LANDSCAPING STOCK ACCORDING TO \$H OF THIS REGULATION, THE REMAINDER ACCORDING TO \$J OF THIS REGULATION.

COMAR 27.01.09.01-2.H

Vegetation Type	Minimum Size Eligible for Credit	Maximum Credit Allowed (Square Feet)	Maximum Percent of Credit Not applicable	
Canopy tree	2-inch caliper and 8 feet high	200		
Canopy tree	1-inch caliper and 6 feet high	100	Not applicable	
Understory tree	1-inch caliper and 6 feet high	75	Not applicable	
Large shrub	1 gallon and 4 feet high	50	30	
Small shrub	1 gallon and 18 inches high	25	20	
Herbaceous perennial*	I quart	2	10	
Planting Cluster 1*	1 canopy tree; and 3 large shrubs or 6 small shrubs of sizes listed above	300	Not applicable	
Planting Cluster 2 understory trees; and 3 large shrubs or 6 small shrubs of sizes listed above		350	Not applicable	

* THESE OPTIONS ARE AVAILABLE ONLY FOR BUFFER ESTABLISHMENT AND MITIGATION OF LESS THAN 1 ACRE ALL LANDSCAPING STOCK PLANTED IN ACCORDANCE WITH \$1 SHALL BE 100 PERCENT GUARANTEED FOR AT LEAST 2 YEARS AFTER PLANTING IS COMPLETED.

THE BALANCE OF REQUIRED BUFFER ESTABLISHMENT AFFORESTATION PLANTINGS NOT INSTALLED AS LANDSCAPE STOCK ABOVE SHALL BE PROVIDED IN ACCORDANCE WITH THE FOLLOWING STOCKING RATES: COMAR 27.01.09.01-2.J

Stock Size of Trees Only	Required Number of Stems Per Acre	Survivability Requirement	Minimum Financial Assurance Period After Planting
Bare-root seedling or whip	700	50 percent	5 years
1/2-inch to 1-inch container grown trees	450	75 percent	2 years
More than 1-inch container grown trees	350	90 percent	2 years

OTHER REQUIREMENTS

COMAR 27.01.09.01-3.J. (3) (a) - A SINGLE SPECIES MAY NOT EXCEED 20% OF THE TOTAL PLANTING REQUIREMENT; AND

COMAR 27.01.09.01-3.J. (3) (b) - SHRUBS MAY NOT EXCEED 50% OF THE TOTAL PLANTING REQUIREMENT.

PLANT INSTALLATION SPECIFICATION

GENERAL REQUIREMENTS:

OVERALL COMPLIANCE WITH THE TERMS OF THIS FOREST PRESERVATION-BUFFER MANAGEMENT PLAN INCLUDING ALL MAINTENANCE AND WARRANTY REQUIREMENTS PRESCRIBED HEREON IS THE RESPONSIBILITY OF THE OWNER/DEVELOPER, MAINTENANCE, WARRANTY AND PLANT MATERIAL SURVIVAL RESPONSIBILITIES OF THE LANDSCAPE CONTRACTOR ("CONTRACTOR") SHALL BE AS SPECIFICALLY NEGOTIATED BETWEEN OWNER/DEVELOPER AND CONTRACTOR.

ALL WORK SHALL BE ACCOMPLISHED WITH QUALIFIED PERSONNEL, UTILIZING INDUSTRY STANDARD PRACTICES AND TECHNIQUES.

THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL LANDSCAPING SHOWN OR IMPLIED ON THIS PLAN. PLANT QUANTITIES ARE SHOWN FOR CONVENIENCE ONLY. PRIOR TO INSTALLATION THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OR PLAN PREPARER IF PROPOSED SPECIES AND/OR SITE PLANTING CONDITIONS WARRANT RE-DESIGN CONSIDERATIONS.

THE CONTRACTOR SHALL DILIGENTLY ATTEMPT TO LOCATE THE SPECIFIED PLANT MATERIAL. IF SPECIFIED PLANT MATERIALS CANNOT BE LOCATED, ALTERNATIVES MAY BE CONSIDERED AND APPROVED, IN ADVANCE, BY THE LANDSCAPE ARCHITECT OR PLAN PREPARER.

THE LANDSCAPE ARCHITECT OR PLAN PREPARER SHALL REJECT ANY AND ALL PLANT MATERIAL THAT DOES NOT MEET SPEC, IS DISEASED OR IS OTHERWISE UNHEALTHY.

PLANTING SPECIFICATIONS:

LANDSCAPE (BALL & BURLAP AND/OR CONTAINER GROWN STOCK

PLANT MATERIAL - ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK AS APPROVED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE, INC. LATEST ADDITION. ALL PLANT MATERIAL SHALL BE NURSERY GROWN WITH SOUND HORTICULTURAL PRACTICES AND UNLESS OTHERWISE APPROVED BY THE LANDSCAPE ARCHITECT, GROWN IN SOIL AND CLIMATIC CONDITIONS SIMILAR TO THIS PROJECT SITE. ALL MATERIAL SHALL EXHIBIT HEALTHY GROWTH WITH GOOD BRANCHING STRUCTURE, DENSE FOLIAGE AND A FIBROUS, DEVELOPED ROOT SYSTEM, ALL MATERIAL SHALL BE FREE OF INSECT INFESTATION AND DISEASE. THE OWNER RESERVES THE RIGHT TO HAVE THE PLANT MATERIAL INSPECTED AND TAGGED AT THE GROWING SITE, AND TO REJECT ANY DEFICIENT MATERIAL AT THE JOB SITE.

PLANT MATERIAL HANDLING - ALL PLANT MATERIAL SHALL ARRIVE AT THE JOB SITE IN A HEALTHY CONDITION. CRACKED ROOT BALLS AND OTHER DAMAGED MATERIALS SHALL BE REJECTED AND REPLACED BY CONTRACTOR. THE CONTRACTOR SHALL STAGE DELIVERY AND PLANT INSTALLATION TO MINIMIZE STRESS ON PLANT MATERIAL. MATERIAL TO BE STAGED ON OR OFF THE JOB SITE SHALL BE LOCATED TO MAXIMIZE PROTECTION FROM HOT SUN AND DRYING WINDS, AND SHALL BE WATERED TO MAINTAIN A STRESS FREE CONDITION. ON-SITE WATER MAY NOT BE AVAILABLE FOR CONTRACTOR USE. THE LACK OF AVAILABLE WATER SHALL NOT RELIEVE THE CONTRACTOR OF ADEQUATE MAINTENANCE.

THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK. COORDINATE WITH OTHER CONTRACTORS ON SITE AND MISS UTILITY TO VERIFY UTILITY LOCATIONS. ANY REPAIRS TO EXISTING UNDERGROUND UTILITIES REQUIRED AS A RESULT OF ACTIONS OF THE CONTRACTOR AND/OR HIS ASSIGNS SHALL BE BORNE BY CONTRACTOR.

CONTRACTOR SHALL VERIFY THAT FINAL ROUGH GRADES HAVE BEEN ESTABLISHED AND THAT THE SITE IS READY FOR LANDSCAPE INSTALLATION. THE CONTRACTOR SHALL INSURE THAT PLANTINGS WILL HAVE THAT ADEQUATE DRAINAGE. THE CONTRACTOR SHALL INSTALL PLANT MATERIAL FACTORING IN ANY "FINAL" GRADING WORK TO BE COMPLETED AFTER LANDSCAPE INSTALLATION.

PLANTING BED/PIT PREPARATION: CONTRACTOR SHALL LAYOUT BEDS AND POSITION PLANTS FOR APPROVAL BY LANDSCAPE ARCHITECT, REVIEW ANY SIGNIFICANT FIELD ADJUSTMENTS PRIOR TO INSTALLATION, ALL BED AREAS SHALL BE TREATED WITH HERBICIDE TO KILL WEED OR GRASS VEGETATION.

ALL TREE PITS AND INDIVIDUAL SHRUB PLANTING PITS SHALL BE EXCAVATED TO A DEPTH SO THAT THE PLANT ROOT FLARE SHALL LIE AT THE FINISHED GRADE SURROUNDING THE PLANT OR PLANTINGS. REMOVE SOIL THAT MAY HAVE BEEN PLACED ON TOP OF ROOT BALL OR SETTLED AROUND TRUNK OR ROOT FLARE DURING TRANSPORT TO ADEQUATELY EXPOSE ROOT FLARE SO PROPER PLANTING DEPTH CAN BE ESTABLISHED. THE ROOT BALL SHALL REST ON UNDISTURBED OR STABILIZED SOIL. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IF THIS PLANTING DEPTH SPECIFICATION CANNOT BE IMPLEMENTED. TREE PLANTING PITS SHALL BE EXCAVATED TO A WIDTH EQUALING TWICE THE ROOT BALL DIAMETER. TREE PITS ON SLOPED AREAS SHALL BE EXCAVATED TO THE PROPER DEPTH BASED ON THE UPHILL SIDE OF THE SLOPE. SHRUB/PERENNIAL AND MASS PLANTING BEDS SHALL BE WORKED OR EXCAVATED TO THE DEPTH OF THE ROOT BALL PROVIDING FOR THE ROOT BALL TO REST ON UNDISTURBED SOIL. EXCAVATED SOILS NOT PREVIOUSLY COMPACTED OR OTHERWISE DEGRADED SHALL BE RE- USED FOR PLANTING PIT BACKFILL. EXCAVATED SOILS UNSUITED FOR BACKFILL SHALL BE AMENDED WITH FRIABLE TOPSOIL TO CREATE A SUITABLE PLANTING SOIL AS APPROVED BY THE LANDSCAPE ARCHITECT. EXCAVATED SOILS THAT CANNOT BE RESTORED TO A REASONABLE PLANTING SOIL SHALL BE REMOVED AND REPLACED WITH A FRIABLE, TOPSOIL/SUB SOIL PLANTING MIX TYPICAL OF THE REGION. NOTE- FOR BIDDING PURPOSES OR UNLESS OTHERWISE SPECIFIED HEREON, THE CONTRACTOR SHALL ASSUME EXCAVATED SOILS ARE SUITABLE FOR PLANTING BACKFILL.

PLANTING BEDS FOR AZALEAS, RHODODENDRONS, YEWS AND OTHER MOISTURE SENSITIVE PLANT MATERIAL SHALL BE MOUNDED AND AMENDED WITH SAND, PEAT OR COMPOST AS NECESSARY TO SUITABLE PLANTING SOIL AND DRAINAGE.

CONTRACTOR SHALL COORDINATE IRRIGATION INSTALLATION (IF APPLICABLE TO THIS PROJECT) TO INSURE THAT PRELIMINARY IRRIGATION WORK IS COMPLETED OR COORDINATED WITH PLANTING EFFORTS.

PLANT INSTALLATION: REMOVE BURLAP AND OTHER ROOT BALL COVERING TO THE EXTENT POSSIBLE- AT A MINIMUM THE UPPER 1/2 OF ROOT BALL WRAP SHALL BE REMOVED. CUT AND REMOVE AT LEAST THE TOP 1/3 OF WIRE BASKETS AND ALL ROOT BALL BINDINGS, STRING TIES, STRAPPING, LABELS, ETC. FROM THE PLANT MATERIAL. CUT OR SCARIFY THE SIDES OF CONTAINER GROWN STOCK TO ELIMINATE BOUND ROOTS AND PROMOTE HEALTHY ROOT

PLANTS SHALL BE INSTALLED VERTICALLY AND PLUMB, PLANT PITS SHALL BE BACKFILLED AND COMPACTED, ALL PLANTS SHALL BE WATERED DURING PLANTING TO MINIMIZE AIR POCKETS AND TO INSURE SOIL CONTACT WITH ROOTS. LET PLANT PITS SETTLE, AND ADD SOIL TO FILL VOIDS PRIOR TO MULCHING. WHERE PLANTINGS ARE NOT IRRIGATED, UTILIZE EXCAVATED SOIL TO FORM A WATERING COLLAR AROUND THE TREE OR SHRUB AT THE PERIMETER OF THE ROOT BALL, FEATHER SOIL GRADES AROUND PLANTINGS TO BLEND WITH SURROUNDING LANDSCAPE OR TURF AREAS. EXCESS EXCAVATED SOIL SHALL BE REMOVED FROM JOB SITE.

DECIDUOUS TREES OVER 2" CALIPER AND EVERGREEN TREES OVER 7' HEIGHT (UNLESS OTHERWISE WAIVED BY THE LANDSCAPE ARCHITECT), SHALL BE STAKED AND GUYED WITH MINIMUM 2- 2" X 2" X 6' HARDWOOD STAKES PLACED IN STABLE SOILS. GUY TREES TO STAKES WITH PROTECTIVE MATERIALS TYPICALLY UTILIZED IN THE INDUSTRY

ALL PLANTING BEDS AND PITS NOT OTHERWISE CONTAINED WITH HARD EDGING SHALL BE EDGED WITH A 3" DEEP "V" TRENCH AND MULCHED TO A 2" DEPTH WITH DOUBLE SHREDDED, HARDWOOD BARK MULCH. MULCH SHALL GENERALLY EXTEND TO THE EDGE OF PAVING OR BUILDINGS, OR BACK OF CURB. IN OPEN AREAS ADJACENT TO TURF OR NATURALIZED AREAS, MULCH SHALL EXTEND A MINIMUM OF 2.5' BEYOND THE TRUNK FOR TREES AND 1.0' BEYOND THE EDGE OF SHRUB FOLIAGE, UNLESS OTHERWISE SPECIFICALLY DIRECTED HEREON, SHAPE THE MULCH-BED EDGE CONDUCIVE TO EASE OF MOWING OR MAINTENANCE OF THE ADJOINING AREA. DO NOT PLACE OR MOUND MULCH AGAINST THE TRUNK OR FOLIAGE OF PLANTS.

RECOMMENDED PLANTING TIMES: PLANTING SCHEDULES SHALL COINCIDE WITH THE OVERALL PROGRESS OF SITE CONSTRUCTION. CERTAIN PLANT SPECIES REQUIRE SPECIFIC SEASON INSTALLATION AND SHALL BE COORDINATED APPROPRIATELY. PLANTING IS DISCOURAGED IN THE HOT. DRY PERIODS OF SUMMER AND DURING FROZEN GROUND CONDITIONS OF WINTER, BUT MAY BE CONSIDERED YEAR-ROUND WITH MAINTENANCE REQUIREMENTS ADDRESSED ACCORDINGLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANT MATERIAL HEALTH AND VIGOR REGARDLESS OF WHEN THE MATERIAL IS INSTALLED. RECOMMENDED PLANTING TIMEFRAMES:

- BALL & BURLAP STOCK— OCTOBER 15 THRU APRIL 15
- CONTAINER STOCK— YEAR —ROUND WITH ADEQUATE WATER
- BARE-ROOT TREES/SHRUBS- NOVEMBER 15 THRU APRIL 15

SEEDLING & BARE-ROOT/WHIP STOCK

PLANT MATERIAL - SEEDLINGS/WHIPS: ALL SEEDLINGS SHALL BE SPECIES NATIVE TO MARYLAND, AND GROWN AT THE JOHN S. AYTON STATE FORESTRY NURSERY OUTSIDE PRESTON, MARYLAND, OR AS OTHERWISE APPROVED BY THE LANDSCAPE ARCHITECT. ALL SEEDLINGS SHALL HAVE HEALTHY, INTACT ROOT SYSTEMS, SHALL BE FREE FROM DISEASE AND PESTS AND SHALL BE DELIVERED TO THE SITE IN APPROPRIATE MOISTURE CONSERVING CONTAINERS. ALL SEEDLINGS SHALL BE UTILIZED IN PLANTING WITHIN 24 HOURS OF DELIVERY AND/OR ADEQUATELY PROTECTED FROM MOISTURE LOSS THRU HEALING IN UNTIL THEY CAN BE UTILIZED FOR PLANTING.

HARDWOODS- 1/4" TO 1/2" CALIPER WITH ROOTS NO LESS THAN 8" LONG. CONIFERS- 1/8" TO 1/4" CALIPER W/ ROOTS NO LESS THAN 8" LONG SHRUBS- 1/8" CALIPER OR LARGER WITH MINIMUM 8" ROOT SYSTEM.

PLANTING AREA PREPARATION: CONTRACTOR SHALL DELINEATE PLANTING AREAS. CONTACT LANDSCAPE ARCHITECT FOR STAKEOUT OF PERIMETER WHERE LIMITS OF PLANTING ARE NOT CLEARLY DEFINED. THE PLANTING AREA SHAL BE LEFT IN ITS NATURAL CONDITION UNLESS DIRECTED HEREON OR AS OTHERWISE APPROVED BY THE LANDSCAPE ARCHITECT TO FACILITATE REASONABLE PLANTING CONDITIONS. MOWING OR HERBICIDE APPLICATION MAY BE WARRANTED AND/OR PERMITTED SUBJECT TO PRIOR APPROVAL. COORDINATE ALL PLANTING AREA ADJUSTMENTS PRIOR TO INSTALLATION.

INSTALLATION SPECIFICATIONS: PROVIDE PLANTINGS IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OUTLINED HEREIN. EXTREME CARE SHOULD BE TAKEN TO RETAIN MOISTURE IN THE ROOTS OF THE SEEDLINGS. WHILE PLANTING SEEDLINGS, CARRY EXTRA SEEDLINGS IN A PROTECTED, MOIST CONTAINER AND KEEP ALL UN-USED SEEDLINGS IN A SHADED, MOIST PLACE. FIRMLY COMPRESS THE SOIL AROUND SEEDLINGS AFTER INSTALLATION TO ELIMINATE AIR POCKETS AND POSSIBLE ROOT DESICCATION. ELIMINATE "J-ROOTS", OR ROOTS THAT BEND UPWARD IN PLANTING HOLE. ALL PLANTS SHALL BE INSTALLED AT THE CORRECT PLANTING DEPTH WITH ROOT FLARE JUST ABOVE FINISHED GRADE.

RECOMMENDED PLANTING TIMES: ALL PLANTING SHALL BE ACCOMPLISHED VIA MACHINE OR HAND PLANTING IN THE EARLY SPRING. AS SOON AS SEEDLING HARVESTS AND GROUND CONDITIONS PERMIT, BUT PRIOR TO MAY 15.

SPECIALIZED SITE PREPARATION

PLANTING AREAS THAT HAVE BEEN IN CONSISTENT AGRICULTURAL PRODUCTION SHALL BE PLANTED WITH NO OTHER REQUIRED SITE PREPARATION.

PLANTING AREAS THAT ARE OVERGROWN IN WEEDS OR NOXIOUS PLANTS SHALL BE SPRAYED WITH ROUND-UP AND THEN DISKED AFTER 3 WEEKS AND THEN PLANTED.

PROTECTION DEVICES

PROTECTION DEVICES: IF NOT ALREADY IN PLACE, INSTALL PROTECTIVE SIGNAGE WHERE SHOWN ON THE PLAN IMMEDIATELY AFTER COMPLETION OF PLANTING.

THE CONTRACTOR SHALL MAINTAIN A CLEAN JOB SITE AND REMOVE ALL PLANTING AND SUPPLY DEBRIS DAILY DURING THE COURSE OF IMPLEMENTATION.

MAINTENANCE PROVISIONS

THE OWNER/DEVELOPER IS RESPONSIBLE AND SHALL INSURE ADEQUATE MAINTENANCE IS PROVIDED THROUGH THE INSTALLATION AND WARRANTY PERIOD AND FINAL INSPECTION BY DORCHESTER COUNTY. AT A MINIMUM, THE CONTRACTOR SHALL MAINTAIN ALL PLANTING INSTALLATION, ON A LOT BY LOT BASIS AS NECESSARY, THROUGH JOB COMPLETION AND APPROVAL OF INITIAL INSTALLATION BY DORCHESTER COUNTY. ADDITIONAL MAINTENANCE REQUIREMENT OF THE CONTRACTOR SHALL BE AS SPECIFICALLY NEGOTIATED WITH THE OWNER/DEVELOPER. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO:

- PERIODIC WATERING OF LARGER STOCK DURING PERIODS OF DROUGHT
- BI-ANNUAL MOWING OF COMPETING VEGETATION BETWEEN ROWS OR AROUND INDIVIDUAL PLANTS
- HERBICIDE APPLICATIONS FOR EXTREME WEED OR COMPETING GROWTH CONTROL. RE-MULCHING PLANT MATERIAL ANNUALLY
- MAINTENANCE OF PROTECTIVE SIGNAGE OR OTHER PROTECTIVE DEVICES

INSPECTION REQUIREMENTS

1. INITIAL JOB COMPLETION INSPECTION- ALL WORK SHALL BE INSPECTED BY THE LANDSCAPE ARCHITECT OR PLAN PREPARER AND DORCHESTER COUNTY AFTER COMPLETION. ANY DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY. THE OWNER/DEVELOER HEREBY GRANTS PERMISSION TO THE COUNTY TO INSPECT THE PLANTINGS AT APPROPRIATE

1.a. YEAR 1 FOLLOW-UP INSPECTION- SPRING PLANTINGS- ALL WORK SHALL BE INSPECTED BY THE LANDSCAPE ARCHITECT OR PLAN PREPARER THE FOLLOWING FALL TO ASSESS SURVIVABILITY AND DIRECT RE-PLANTING AS NECESSARY. RE-PLANTING SHALL BE COMPLETED THE FOLLOWING SPRING OR EARLIER IF NORMALLY ACCEPTABLE PLANTING PRACTICES AND GROUND CONDITIONS PERMIT. THE INSPECTOR SHALL SUMMARIZE THE GENERAL CONDITIONS OF THE PLANTING AREAS AND PLANT MATERIAL AND ANY REMEDIAL ACTION OR MAINTENANCE REQUIRED IN WRITING TO DORCHESTER COUNTY.

1.b. YEAR 1 FOLLOW-UP INSPECTION- FALL PLANTINGS- ALL WORK SHALL BE INSPECTED BY THE LANDSCAPE ARCHITECT OR PLAN PREPARER THE FOLLOWING SPRING TO DETERMINE LEAF-OUT AND DIRECT RE-PLANTING AS NECESSARY. RE-PLANTING SHALL BE COMPLETED IMMEDIATELY OR AS SOON AS GROUND CONDITIONS PERMIT. THE INSPECTOR SHALL SUMMARIZE THE GENERAL CONDITIONS OF THE PLANTING AREAS AND PLANT MATERIAL AND ANY REMEDIAL ACTION OR MAINTENANCE REQUIRED IN WRITING TO DORCHESTER COUNTY.

2. YEAR 2 INSPECTION- SHALL OCCUR ANNUALLY IN THE SPRING THRU THE WARRANTY PERIOD(S) THE PLANTINGS SITES SHALL BE INSPECTED BY THE LANDSCAPE ARCHITECT OR PLAN PREPARER, THE INSPECTOR SHALL DETERMINE THE SURVIVAL RATE OF LIVING STEMS OR PLANTS AND SUMMARIZE THE OVERALL GENERAL CHARACTERISTICS OF THE PLANTING AREA IN WRITING TO TALBOT COUNTY, IF PLANT SURVIVAL IS BELOW THE REQUIRED MINIMUM THRESHOLD FOR THE PLANTING AREA, THEN THE PLANTING EFFORT SHALL BE REVIEWED WITH THE COUNTY TO EVALUATE POSSIBLE CAUSES OF THE PLANTING FAILURE AND TO DETERMINE REMEDIATION REQUIREMENTS. IF REMEDIATION IS REQUIRED, THE WARRANTY PERIOD FOR THE SUBJECT PLANTING AREA SHALL BE EXTENDED BY 1 FULL YEAR.

3. YEAR 3 (AND YEAR 6 AS REQUIRED FOR SEEDLING/WHIP INSTALLATIONS) INSPECTION— SHALL OCCUR IN THE SPRING, THE PLANTINGS SITES SHALL BE INSPECTED BY THE LANDSCAPE ARCHITECT OR PLAN PREPARER AND DORCHESTER COUNTY TO DETERMINE THE SURVIVAL RATE OF LIVING STEMS OR PLANTS. PLANTING AREAS COMPLYING WITH THE REQUIRED SURVIVAL THRESHOLD SHALL BE ACCEPTED BY THE COUNTY.

4. NATURAL RE-GENERATION AREA INSPECTIONS- INSPECT NATURAL REGENERATION AREAS ANNUALLY, MAINTAIN PROTECTIVE SIGNAGE AND FENCING DEVICES. REMOVE NOXIOUS WEEDS AND/OR 'INVASIVE SPECIES. ASSESS THE GENERAL STEM COUNT OF NEW WOODY GROWTH AND REPORT SAME TO COUNTY. AFTER YEAR TWO (2), ACCURATELY DETERMINE REGENERATION SURVIVAL AND DETERMINE ANY SUPPLEMENTAL PLANTING REQUIREMENTS. INSTALL PLANTINGS AS SOON AS POSSIBLE.

5. THE COUNTY SHALL MAKE A DETERMINATION OF THE LEVEL OF COMPLIANCE WITH THE BUFFER MANAGEMENT PLAN.

PLANTING AREAS FALLING BELOW THE REQUIRED SURVIVAL THRESHOLD SHALL BE EVALUATED AGAINST THE FOLLOWING CRITERIA:

- QUALITY OF EFFORT TO PLANT AND RE-PLANT AREAS NOTED AS DEFICIENT IN PRIOR
- INSPECTIONS SITE CONDITIONS AND WEATHER EVENTS OVER THE WARRANTY PERIOD
- EXTREME WEATHER EVENTS (HURRICANES, TORNADOES, MAJOR HAIL STORMS)

WARRANTY PROVISIONS

THE OWNER/DEVELOPER SHALL WARRANT LANDSCAPE PLANTING STOCK TO A 100% SURVIVAL RATE FOR TWO (2) FULL YEARS FROM DATE OF SUBSTANTIAL COMPLETION OF THE WORK AND ACCEPTANCE OF THE INITIAL INSTALLATION BY THE COUNTY.

THE OWNER/DEVELOPER SHALL WARRANT SEEDLING, BARE-ROOT AND WHIP PLANTING STOCK TO A 50% SURVIVAL RATE FOR FIVE (5) FULL YEARS FROM DATE OF SUBSTANTIAL COMPLETION OF THE WORK AND ACCEPTANCE OF THE INITIAL INSTALLATION BY THE COUNTY.

SURETY

THE OWNER/DEVELOPER SHALL PROVIDE A SURETY IN A FORM ACCEPTABLE TO DORCHESTER COUNTY BASED ON THE PLANTING SPECIFICATIONS AND COST ESTIMATES SHOWN HEREON. THE SURETY SHALL BE PROVIDED PRIOR TO FINAL SUBDIVISION APPROVAL.

RELATED DOCUMENTS

THIS CRITICAL AREA FOREST PRESERVATION/BUFFER MANAGEMENT PLAN IS SUBJECT TO A FOREST PRESERVATION/BUFFER MANAGEMENT PLANTING AND MAINTENANCE AGREEMENT RECORDED AMONG THE LAND RECORDS OF DORCHESTER COUNTY.

THE CRITICAL AREA BUFFER AS SHOWN HEREON IS SUBJECT TO CRITICAL AREA AFFORESTATION REQUIREMENTS.

2.2 AC. TOTAL

800 STEMS PROVIDED

SQUARE TOTAL ESTIMATE TOTAL

FOOTAGE | SQUARE | COST \$ PER | COST \$

23,800 SF CREDIT

BUFFER ESTABLISHMENT PROPOSAL

A. BUFFER AREA TO BE ESTABLISHED:

LANDSCAPE STOCK PLANTINGS (50%)- 1.1 AC.

SEEDLING STOCK PLANTINGS (50%)— 1.1 AC.

STOCKING RATES:

LANDSCAPE STOCK- 119- 2" CAL. TREES @ 100 SF CREDIT = 11,900 SF CREDIT 238- 1" CAL. TREES @ 50 SF CREDIT = 11,900 SF CREDIT

TOTAL 47,600 SF CREDIT= 1.1 AC. SEEDLING STOCK- 1.1 AC. @ 700 STEMS/AC. = 770 STEMS REQUIRED

952- SHRUBS @ 25 SF CREDIT=

RECOMMENDED TREE AND SHRUB SPECIES*: Seedling Stock may be purchased through Department of Natural Resources – Forest Service John Ayton State Nursery Preston, MD 21655 410-673-2467 or on the DNR web page.

VALUE

SEEDLING STOCK - 50% OF THE TOTAL REQUIRED SQUARE FOOTAGE.

NUMBER

Density 700 stems per acre 650 total seedlings at 8' X 8' average spacing

SYMBOL | SIZE

Large Trees 200 12,800 | \$0.45 Seedling oblolly pine Pinus taeda 112.50 9,600 150 Swamp White Seedling Oak - Quercus. 9,600 \$0.50 150 Baldcyress -Seedling 10-20" Taxodium distichcum Small Trees 9,600 | \$0.50 150 Red bud.-Seedlings | 75.00 10-20" Cercis canadensis

1,800 \$0.80 40.00 50 36 Seedling Vinterberry llex verticillata 50.00 3600 \$0.50 Red Osier 100 Seedling Dogwood – stolonifer 47 000 **Grand Totals**

Reasonable substitution of recommended plant materials can be made based on availability and cost. Any major changes to the plant materials list will require approval of the Planning Office. The seedling stock can be obtained through the Maryland Department of Natural Resources - Forest Service State Nursery located at Preston, MD.

OWNER CERTIFICATION:

EDWIN G. HOWARD, JR.

I. EDWIN G. HOWARD. JR., HEREBY ACCEPT THE TERMS AND CONDITIONS OF THIS FOREST PRESERVATION/BUFFER MANAGEMENT PLAN.

_ DATE:____

IMPLEMENTATION TIMEFRAME REQUIREMENT

AT A MINIMUM, THE BUFFER ESTABLISHMENT AFFORESTATION SHALL BE INSTALLED ON A LOT BY LOT BASIS WHEN A DEVELOPMENT ACTIVITY IS PROPOSED OR THE LAND USE CHANGES. THE PLANT SURVIVAL WARRANTY PERIOD BEGINS FROM THE DATE OF SUBSTANTIAL COMPLETION OF THE PLANTINGS ON A LOT BY LOT BASIS.

BUFFER ESTABLISHMENT COST ESTIMATE

SEEDLINGS- \$442.50 SHIPPING AND HANDLING 20%- \$88.50 PLANTING LABOR- \$110.00 HERBICIDE APPLICATION— \$120.00 SUBTOTAL SEEDLING INSTALLATION— \$761.00 SEEDLING MAINTENANCE (25% OF \$761.00 X 5 YEARS)- \$951.25 GRAND TOTAL ESTIMATED COST USING DNR SEEDLINGS AND CONTRACTED LABOR/MAINTENANCE- \$1,712.25 SURETY FOR SEEDLINGS (120% OF GRAND TOTAL)- \$2,054.70

LANDSCAPE TREES AND SHRUBS- \$40,095.00

PLANTING LABOR*- \$40,000.00 LANDSCAPE STOCK MAINTENANCE (\$1,500/YEAR X 2 YEARS)- \$3,000.00

CRITICAL AREA FOREST PROTECTION SIGNS/POSTS (6 SIGNS X \$15.00 EACH)- \$90.00 GRAND TOTAL ESTIMATED COST USING CONTRACTED LABOR/MAINTENANCE- \$83,185.00

SURETY FOR LANDSCAPE (120% OF GRAND TOTAL)- \$99,822.00 *(PICK UP, TRANSPORTATION, INSTALLATION, MULCH AND STAKING AS NEEDED)

COSTS ARE ESTIMATES ONLY, ACTUAL COST OF MATERIALS AND LABOR MAY VARY.

THE ACTUAL PLANTING COST WILL BE DETERMINED BY THE LANDSCAPE CONTRACTOR.

SHORT TERM MAINTENANCE: THE PLANTING SITE WILL REQUIRE SOME MAINTENANCE. IF THE LARGER TREES ARE STAKED AND WIRED THE WIRING SHOULD BE REMOVED AFTER THE THIRD GROWING SEASON. NATIVE NATURAL INVASIVE SPECIES SHOULD BE ENCOURAGED AND ALLOWED TO DEVELO!" WITHIN THE PLANTING SITE. NON-NATIVE SPECIES AND WEEDS SHOULD BE REMOVED FROM THE PLATING SITE BY CUTTING AND SFLECTIVE USE OF HERBICIDES. ADDITIONAL MULCH CAN BE APPLIED TO CONTROL WEEDS AROUND THE LANDSCAPE TREES AND SHRUBS. IF THE HAS A HISTORY OF NOXIOUS WEEDS AND THEIR CONTROL IS REQUIRED, JOHNSON GRASS AND THISTLE MUST BE CONTROLLED BY MARYLAND STATE LAW AND

LONGTERM MAINTENANCE: THE PLANTING STIE WILL REQUIRE LITTLE LONG TERM MAINTENANCE. TREE SHELTERS USED TO PROTECT HARDWOOD SEEDLINGS SHOULD BE REMOVED IN THE FIFTH GROWING SEASON, NATIVE NATURAL INVASIVE SPECIES SHOULD BE ENCOURAGED AND ALLOWED TO DEVELOP WITHIN THE PLANTING SITE.

NOT ALLOWED TO GO TO SEED.

NON-NATIVE SPECIES AND WOODY SHRUBS SUCH AS MULTIFLORA ROSE AND BITTERSWEET SHOUL) CONTINUE TO BE CONTROLLED OR ELIMINATED FROM THE STAND. PERIODIC INSPECTIONS OF THE SITE DURING THE FIRST 2 YEARS WILL MONITOR AND IDENTIFY INVASIVE SPECIES, PESTS AND LEVELS OF PREDATION. PROBLEMS ARE TO BE CONTROLLED BASED ON THE INTEGRATED VEGETATIVE MANAGEMENT PROGRAMS RECOMMENDED BY EITHER FEDERAL OR STATE AGENCIES. CONTROL MEASURES MAY INCLUDE BUT ARE NOT LIMITED TO SELECTIVE HERBICIDE USE, BURNING, MANUALLY CUTTING AND REMOVING, FENCING OR OTHER TEMPORARY PHYSICAL BARRIERS SUCH AS TREE GUARDS OR WRAPS.

SOURCES: NONNATIVE INVASIVE PLANTS OF THE SOUTHERN FOREST - A FIELD GUIDE FOR IDENTIFICATION AND CONTROL, MILL J.H. USDA FOREST SERVICE GENERAL TECHNICAL REPORT SRS -62, 2003

SITE PREPARATION: THE SITE IS OPEN GROUND THAT HAS UNDER CULTIVATION. THE AREAS SHOULD REMAIN IN BEAN STUBBLE AND NOT BE PLOWED BEFORE

No. | DATE |

PRIOR TO PLANTING THE PILES OF STONE CURRENTLY STOCKPILED IN THE PLANTING AREAS WILL NEED TO BE RELOCATED.

WEED CONTROL: POST PLANTING WEED AND

THE BUFFER PLANTINGS ARE TO BE

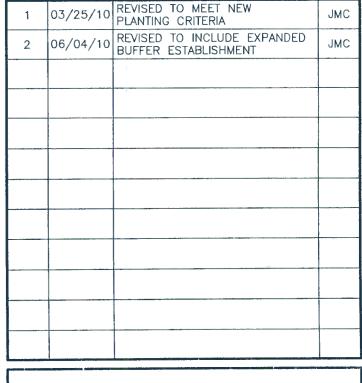
ESTABLISHED.

GRASS CONTROL IS RECOMMENDED TO ALLOW THE TREES AND SHRUBS TO DEVELOP AND SET ROOTS FREE FROM COMPETITION. THE INITIAL CONTROL FOR THE SEEDLINGS CAN BE THROUGH THE APPLICATION OF THE GRASS HERBICIDE "OUST" AT THE TIME OF PLANTING. THIS APPLICATION IS AT GROUND LEVEL, APPLIED AROUND THE PLANTED STOCK. ADDITIONAL WEED CONTROL WILL (MAY) INVOLVE MOWING AND SPOT APPLICATIONS OF "ROUNDUP" AND MULCHING OF THE LANDSCAPE TREES AND SHRUBS. IF THE HAS A HISTORY OF NOXIOUS WEEDS AND THEIR CONTROL IS REQUIRED, JOHNSON GRASS AND THISTLE MUST BE CONTROLLED BY MARYLAND STATE LAW AND NOT ALLOWED TO GO TO SEED.

LANDSCAPE STOCK — The actual plant spacing will provide adequate coverage of the entire Buffer area and follows more widely recommended plant spacing for the future plant requirements for sunlight, space and nutrients for the specific species.

SYMBOL SIZE NUMBER CREDIT TOTAL ESTIMATE COST \$ STIMATE

	SYMBOL	SIZE	NUMBER	VALUE	CREDIT	PER PLANT	TOTAL COST \$
Large Trees							
Willow oak - Quercus phellos	Qp	1 %-2"	25	100	2,500	\$105.00	\$2625.00
Red maple Acer rubrum	Ar	1 1/4 -2"	46	100	4,600	\$115.00	\$5290.00
Sweet Gum- Liquidambar stryraciflua	Ls	1 3/4 -2"	25	100	2,500	\$105.00	\$2625.00
Swamp White oak Quercus bicolor	Qb	1 % - 2"	10	100	1000	\$110.00	\$1100.00
American Sycamore Plantanus occidentalis	Po	1 %- 2"	13	100	1,300	\$105.00	\$1365.00
Redbud Cercis canadensis	Cc	5-6	40	50	2,000	\$55.00	\$2200.00
Crabapple Malus sp.	M	1*3/2 - 13/4"	42	50	2,100	\$80,00	\$3360.00
Common Hackberry Celtis occidentalis	Со	1 1/4-2"	40	50	2000	\$105.00	\$4200.00
Eastern red cedar Juniperus virginiana	Jv	4-5	80	50	4000	\$38.00	\$3040.00
American hornbeam Carpinus caroliniana	Cca	1 1/4- 2"	36	50	1800	110.00	\$3960.00
SHRUBS							
Bay berry Myrica pennsylvanica	Мр	18-24"	190	25	4750	\$10.75	\$2042,5
Winterberry llex verticillata "Maryland Beauty"	lv	4-5'	190	25	4750	\$10.75	\$2042.5
Inkberry Hex glabra	lg	18-24"	190	25	4750	\$11,75	\$2232.5
Lowbush Blueberry Vaccinium agustifolium	Va	#1 container	190	25	4750	\$4.95	\$940.5
Waxmyrtle Myrica cerifera	Мс	8-30"	192	25	4800	\$16.00	\$3072.0
Totals			1078	1	47,600		\$40,095.0



DESCRIPTION

CRITICAL AREA COMMISSION Chesapeake & Atlantic Coastal Bays

Lane Engineering, LLC

Established 1986 Civil Engineers • Land Planning • Land Surveyors

117 Bay St. Eastan, MD 21601 (410) 822-8003 15 Washington St. Cambridge, MD 21613 (410) 221-0818 354 Pennsylvania Ave. Centreville, MD 21617 (410) 758-2095

IOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED HERE:



PLANTING PLAN ON THE LAND OF

GST EXEMPT TRUST, ET. AL.

IN THE EIGHTH ELECTION DISTRICT DORCHESTER COUNTY, MARYLAND TAX MAP 17 GRID 24 PARCEL 117

PRELIMINARY SUBMITTAL FINAL SUBMITTAL

12/21/09 JS0

03/26/10 JS

12/18/09 080385 JOB No. ILF No.

