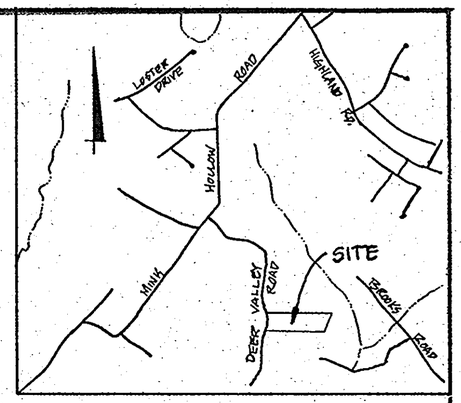
PLANT LIST

NAME	SIZE	SPACING	QUANTITY	LOCATION
* SHADE TREES:				
ACER RUBRUM/OCTOBER GLORY RED MAPLE	2½-3	25' o.c.	26	(T)

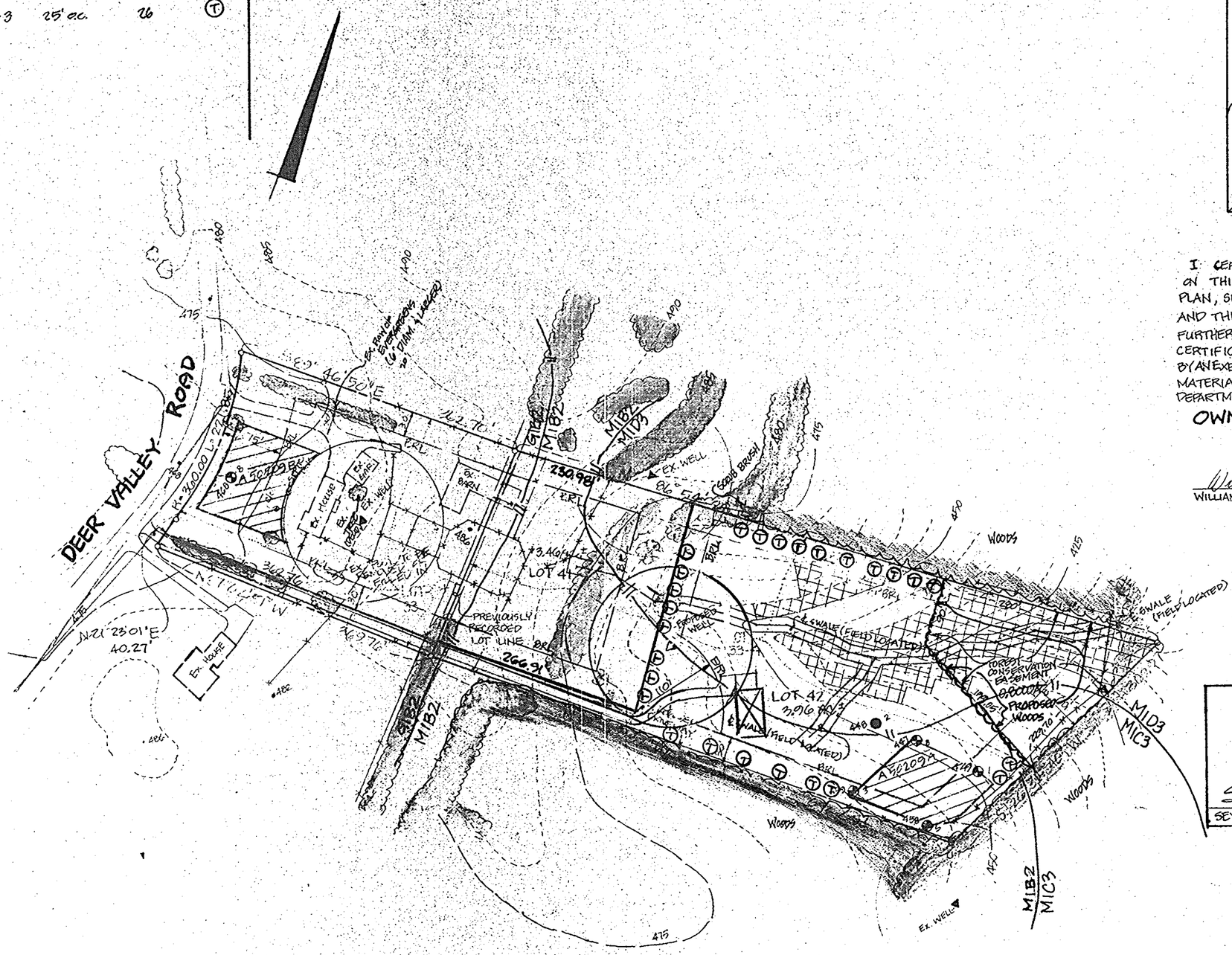


I CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. WE FURTHER CERTIFY THAT UPON COMPLETION A CERTIFICATE OF LANDSCAPE INSTALLATION ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT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

OWNERS:

William F. Hahn 9/27/95

WILLIAM F. HAHN DATE



SEYED A. SAADAT
No. 16493
REGISTERED
PROFESSIONAL ENGINEER
STATE OF MARYLAND

Seyed A. Saadat 9-27-95

SEYED SAADAT PROF. ENG. #16493 DATE

9/27/95

LANDSCAPE PLAN

CISSEL FARM SEC. 3
LOTS 41 & 42
(FORMERLY LOTS 33 & 33A)
5TH ELECTION DISTRICT
HOWARD COUNTY, MD
SCALE: 1" = 100'
DATE: 6-15-95

SHANABERGER & LANE
8726 TOWN & COUNTRY BLVD.
SUITE 104
ELLICOTT CITY, MD 21043
PHONE (410) 461-9563
FAX (410) 461-9693

F-95-113

PLANTING SPECIFICATIONS AND NOTES:

GENERAL NOTES

1.) This re/af-fforestation planting plan is provided in accordance with the requirements set forth by the Forest Conservation Act/Bill/Ordinance of Howard County. The preparation of these plan(s), the notes and details incident thereto were prepared using the guidelines of the Howard County Forest Conservation Manual, the State of Maryland's Forest Conservation Manual, as well as sound professional forestry, arborist, and nurseryman practice.

2.) This plan and shall be implemented by a contractor that is knowledgeable and experienced in the methods set forth herein.

3.) The survival rate of the plantings shall be 75% of the total number of plantings per acre as provided by this plan.

4.) Base sheet information was provided by Shanaberger and Lane

QUALITY ASSURANCE

1.) Names of plant material listed conform generally with names accepted by the nursery trade. The contractor is to provide stock true to botanical/scientific name.

2.) Material shall be grown and delivered so as to be that specified herein.

3.) If specified material is not available or there are other technical, logistical, financial imperatives that shall necessitate the substitution of plant materials, the contract shall contact the plan preparer for permission to use equivalent material.

SITE PREPARATION AND SOILS

I.) Disturbance of soils should be limited to the Planting Field for each plant unless the area has been prepared with/for soil amendments and/or broadcast seeding for goundcovers, etc.

2.) Soil amendments should be considered for any site only after careful analysis of existing conditions. Soil samples should be analyzed by a qualified soils lab to determine the need for any amendments. Results of the soil analysis should be provided to the landscaping contractor and/or the local County Co-operative Extension Agent or interpretation in the context of the intended plantings. Their recommendations should be followed closely. In the case of highly compacted sites that need only soil aeration or loosening treatment, a mixture of 25% leaf mold and 25% manure, the remainder being landscape topsoil, may be added. This mixture should be applied at the rate of one cubic yard per 165 square feet of area. Till deeply taking care not to bring subsoils to the surface. Amendments should be tilled in after the initial tilling. This method is particularly suitable when broadcast seeding or perennial beds are involved.

3.) Soil mix for ericaceous material: Native topsoil into which the contractor shall thoroughly incorporate 25% by volume peat moss and 25% leaf mold may be mixed into soil.

PLANT STORAGE AND INSPECTION

1.) For container grown nursery stock, planting should occur within two weeks after delivery to site.

2.) Planting stock should be inspected prior to planting. Plants not conforming to standard nurseryman specifications for size, form, and vigor, roots, trunk wounds, insects and disease should be replaced.

3.) Container stock, if not planted within two weeks, may be banked up with mulch and watered every other day or as needed until planting. Bare root shock may NOT be delivered and left on-site prior to planting.

SEASONAL PLANTING LIMITATIONS

1.) Planting activities shall conform with established nurseryman's practice and approximate the growing season for the geographic area. Planting of bare root stock after March 15 should be avoided unless seasonal progression is measurably retarded by observable temperature or weather patterns and stock has been kept appropriately dormant through proper storage.

2.) Planting shall not take place in sub-freezing temperatures, when the ground is frozen, or when the soil is too wet or dry or otherwise in a condition not generally accepted as satisfactory for planting and may adversely affect plant materials

PLANT INSTALLATION

1.) Container grown stock should be removed from the container and roots gently loosened from the soil. If the roots encircle the root ball, substitution is strongly recommended. J-shaped or kinked root systems should also be noted. ROOTS MAY NOT BE TRIMMED ON SITE due to the increased chances of soil borne diseases.

2.) Bare root stock should be un-wrapped on-site only when ready to plant. Then soak in water. When ready for planting, stock shall be immediately dipped in Super-Gro or an equivalent water-holding polymer prepared with water as a slurry per manufacturer's specification. Roots must be thoroughly coated upon withdrawal from slurry. Plant stock immediately after dipping. If not planted immediately, wrap in burlap. Roots are not to be exposed to air.

3.) For trees planted in the afforestation area, contractor shall evenly disperse species in groups of two to four per species over the entire designated area to be planted or on random center spacing by species as dictated by planting density.

4.) Avoid planting in a straight grid pattern. Trees shall be planted on an average spacing of ten feet o.c., randomly.

5.) As shown on the detail view, a Planting Field diameter of two - three times the diameter of the container is recommended. The depth of the hole should be no more than 1 - 1.5 times the length of the root mass. The hole should be established with an auger. If the walls of the hole should glaze due to auger rotation, they can be scored with a spade or the auger may be "wiggled" upon withdrawal to assure no glazing occurs. Additionally, there will be loose earth in the bottom of any hole. This should be lightly tamped with the foot to keep the planting unit from settling too much.

Native stockpiled soils should be used to backfill Planting Field except where soil amendments are site-wide and specified. After plant is placed in hole, water stock around in hole to allow settling of initial fill to avoid air pockets. Finish filling hole and use water to further settle soil backfilled around trees. Mulch with composted wood chips (> 1 year composting), which should be 3" deep and extend to limits of augured hole. This should keep weeds down for about one year.

6.) Newly planted trees may need watering as much as once a week for the entire growing season on well drained sites combined with the looseness of the backfilled, newly amended soil within the Planting Field. Do not overwater. Provide watering only a few times a year during summer and dry months. After that period, trees should only need water in severe droughts. Any watering plan should compensate for recent rainfall patterns.

7.) Do not fertilize newly planted trees within the first growing season after planting. Doing so may cause a spurt of canopy growth which the roots cannot support and add additional shock to the already disturbed plant. Fertilize by sidecasting after one year, if desirable.

8.) If and when it is time to fertilize, organic fertilizers are preferred to synthetic fertilizers. Nonburn, organic-based products are available commercially and are recommended. They have the ability to supply nutrients to the plant as needed while minimizing the risk of excess nutrients entering the forest system and water supply.

9.) All tags, labels, string, wire, etc., shall be removed from plant material.

10.) The landscape contractor is responsible for the location of all existing underground utilities such that the repair of utilities damaged during planting shall be the landscape contractor's expense.

AFFORESTATION PLANT LIST

QTY	SPECIES	SIZE	REMARKS
56	Beech Fagus grandifolia	4 Ft.	Cont. or BR
56	Flowering Dogwood Cornus florida	4 Ft.	" "
56	Red Maple Acer rubrum	4 Ft.	" "
56	N. Red Oak Quercus rubra	4 Ft.	" "
56	Sycamore Platanus occidentalis	4 Ft.	" "

Planting Schedule/Timeframe

Planting shall occur after construction activities have ceased. If the planting stock is to be bare root material, it shall be planted no earlier than immediately after the first frost and no later than March 15. Container stock may be planted at any time and if such stock is chosen, planting shall be accomplished by the end of the first growing season after completion of construction activities.

Binding Maintenance Agreement/Schedule

1.) Annual maintenance during the growing season, for a period of two years. These tasks are the responsibility of the owner or individual to whom ownership has been conveyed or who has legally accepted responsibility for these tasks. Management may include the following: watering, fertilizing, pruning, removal of dead material and the control of pests and competing vegetation.

2.) Schedule: Year 1: 3 times (March-April), (July-August), (October-November). Year 2: Twice annually (April-May), (September-October). At the end of the time period specified in item #1 above, there shall be 75% survival of the total number of trees planted. If the survival rate is determined to have fallen below 75%, material identical to that not surviving shall be planted as replacement.

3.) Assess tree mortality of planting stock, remove and replace any dead or diseased plantings.

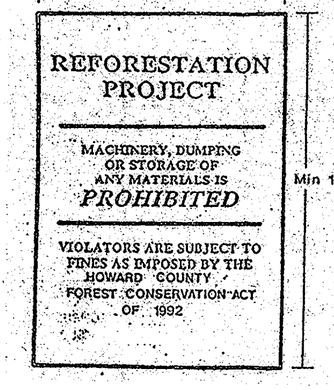
4.) Volunteer seeding of native, local and endemic vegetation is to be expected. Do not discourage this effort unless it is negatively affecting the planted stock.

5.) Remove through manual means (grubbing, pulling, cutting) aggressive, noxious, invasive species herbaceous and otherwise, if deemed necessary. Twice annual mowing/brushhogging and spot treatment with Rodeo or Roundup is one of the most effective means to control exotic/invasive species. No mowing shall occur during the wildlife nesting period of early April through mid-July.

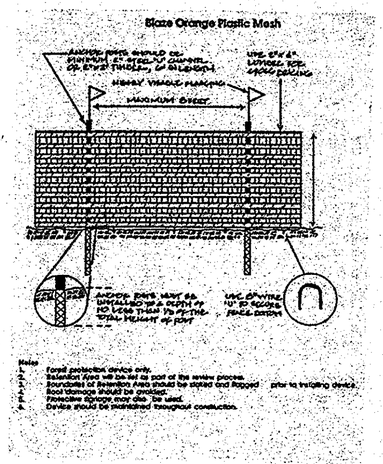
6.) Remove and dispose of man-made trash. Do not remove down and dead material naturally occurring or accumulating, unless it is smothering planting stock.

7.) Certification of survival as required shall be completed by a licensed forester, licensed landscape architect or other qualified professional per COMAR and submitted to Howard County Planning and Zoning personnel. Release of bond or other security shall occur at this time.

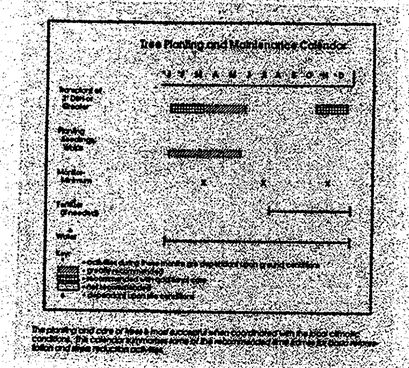
Signage

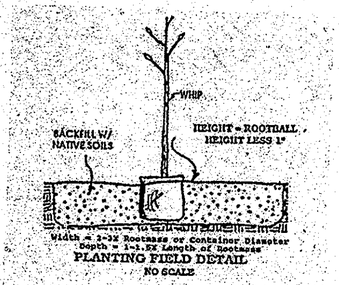


Blaze Orange Plastic Mesh



NOTE: The protective fencing shown hereon should be considered temporary in nature. Permanent fencing of the high tensile-type will be installed after construction in order to protect the plantings from damage and livestock from injury.





PLANTING FIELD DETAIL
NO SCALE

PREPARED BY:

DENNIS J. LaBARE, M.S. & ASSOCIATES
Environmental Consulting Services
8903 Flagstone Circle
Randallstown, MD 21133
• Wetland Delineations & Mitigation
• Stream Assessment & Restoration
• Water Quality Monitoring
• Macroinvertebrate Taxonomy
• Forest Stand Delineations
• Forest Conservation Plans
Qualified Professional, MDFCA
Ph./Fax (410) 922-7476

BASE SHEET PREPARED BY:

SHANABERGER & LANE
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SUITE 104
ELLICOTT CITY, MD 21043
(410) 461-9563
FAX (410) 461-9693

AFFORESTATION & PLANTING PLAN

CISSEL FARM, SEC. 3
LOTS 41 & 42
(FORMERLY LOTS 33 & 33A)
5TH ELECTION DISTRICT
HOWARD COUNTY, MD
SCALE: N.T.S.
DATE: 9-27-95

SHEET 2 OF 2

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