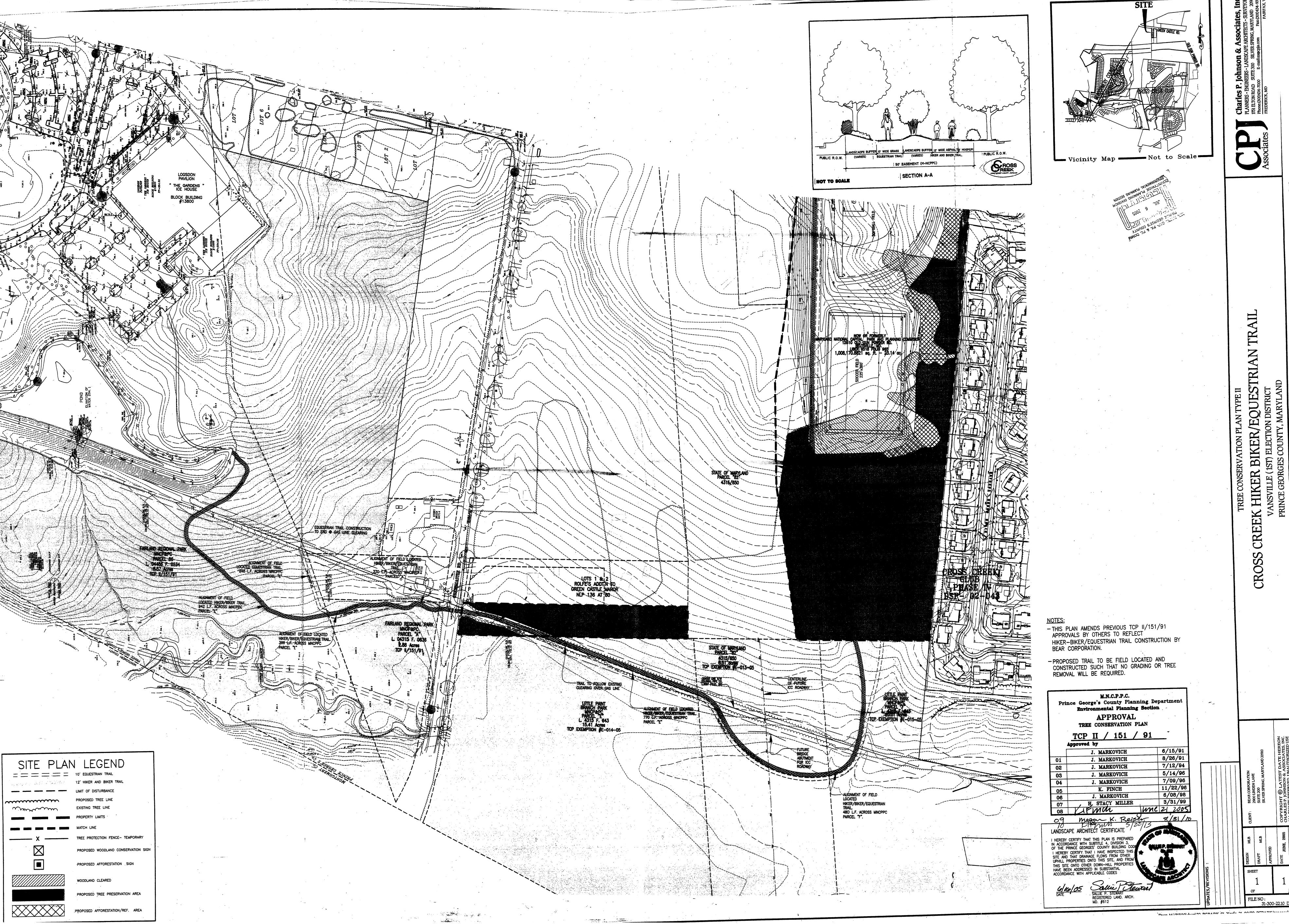


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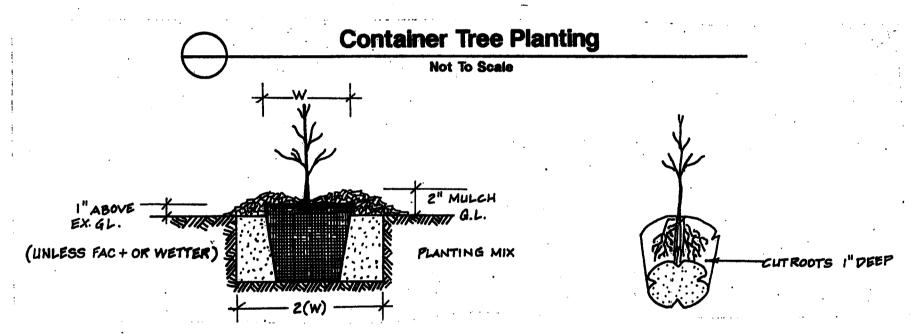
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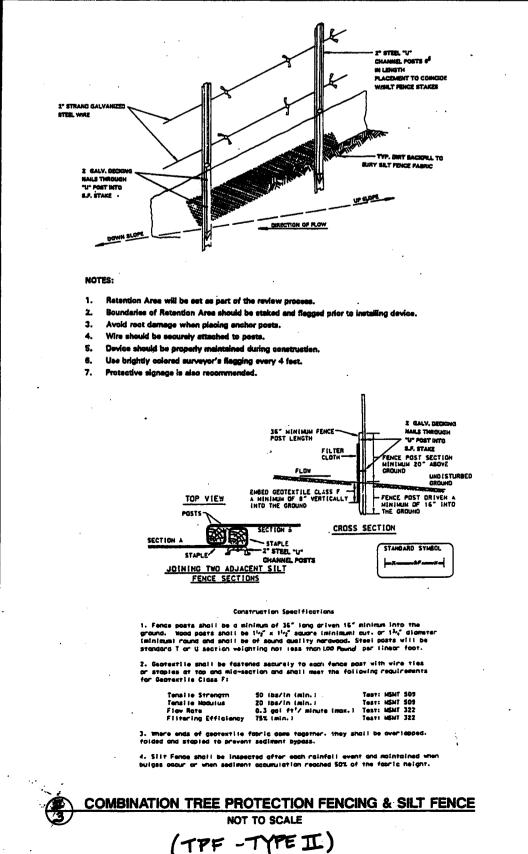
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- The Forest Resources Unit of the Department of Environmental Resources (DER) must be contacted at (301)925-5820 prior to the start of any work on the site to address implementation of Tree Conservation measures shown on this Plan.
- Property owners shall be notified by the Developer or Contractor of any Woodland Conservation Areas (Tree Save Areas, Reforestation Area, Afforestation Areas, or Selective Clearing Areas) located on their lot or parcel of land and the associated fines for unauthorized disturbances to these areas. Upon the sale of the property, the owner/developer or owners representative shall notify the purchaser of the property of any Woodland Conservation Areas.
- All appropriate bonds will be posted with the Building Official prior to the issuance of any permits. These bonds will be retained as surety by the issuance of any permits. These bonds will be retained as surety by the Building Official until all required activities have been satisfied.
- The location of all Tree Protective Devices (TPD's) shown on this Plan shall be flagged or staked in the field prior to the pre-construction meeting with the Forest Resources Unit of DER and the Sediment and Erosion Control Inspector from DER. Upon approval of the flagged or staked TPD locations by the Forest Resources Unit, installation of the TPD's may begin. TPD installation shall be completed prior to installation of initial Sediment Controls. No cutting or clearing of trees may begin before final approval of TPD installation.
- All field personnel, including equipment operators and supervisors who might work or direct work in the vicinity of protected trees are to be instructed in techniques for avoiding damage to these trees.
- The layout of the construction site shall provide for special, marked areas for fueling, oil changing and equipment maintenance, employee parking and for materials storage and stockpiling. These areas shall be located as to prevent the deposit of silt or the washing or leaching of petroleum products or other harmful substances into the tree-save areas.
- The following are not allowed within al tree-save area:
  - Depositing of refuse, construction debris, spoil, petroleum products, vehicle or equipment waste water.
  - Dumping of limbs, stumps and other cleaning debris.
  - Driving of any vehicle or equipment.

removed

- Storage or stockpiling of materials and supplies. Lighting of any fire, including cooking and warming fires
- Woodland Conservation Tree Save Areas and/or Reforestation shall be posted as shown at the same time as Tree Protective Device installation and/or start of reforestation activities. These signs shall remain in place until sediment control devices are authorized to be





# PLANTING SPECIFICATIONS (FOR REFORESTATION

## **AND AFFORESTATION AREAS**

- Quantity: (see Plant Schedule)
- Type: (see Plant Schedule)
- Plant Quality Standards: The bare rooted plants selected shall be healthy and sturdy representatives of their species. Seedlings shall have a minimum top growth of 18". The diameter of the root collar (the part of the root just below ground level) shall be at least 3/8". The roots shall be well developed and at least 8" long. No more than twenty-five percent (≤25%) of the root system (both primary and auxiliary/fibrous) shall show evidence of being cut (pruned) or stripped from the plant during the digging process. Substantial auxiliary/fibrous roots shall be present.

Plants not having an abundance of well developed terminal buds on the leaders and branches shall be rejected.

Plants shall be shipped by the nursery immediately after lifting from the field, and planted immediately upon receipt by the landscape contractor.

If the plants cannot be planted immediately after delivery to the reforestation site, they shall be stored in the shade with their root masses protected from direct exposure to sun and wind by the use of straw, peat moss, compost, or other suitable materials and shall be maintained moist, through periodic watering, until the time of planting.

- Plant Handling: The quantity of seedlings taken to the field shall not exceed the quantity that can be planted in a day. Seedlings, once removed from the nursery supplied bag, shall be planted immediately or transferred to a bucket or bag containing moist sphagnum or peat moss. Seedlings shall not be held in a planter's hand while planting because their roots will be exposed to the air and sun and will dry out quickly.
- Timing of Planting: The best time to plant bare rooted seedlings is while they are dormant and when the soil is moist. Plantings can extend into the summer months if the seedlings are kept in cold storage (and therefore dormant) until planting. Cool and cloudy weather is
- 6. Seedling Planting: Tree seedlings can be hand planted using a dibble bar or sharpshooter shovel. It is important that the seedling be placed in the hole so that the roots can spread out naturally; they should not be twisted, balled up, or bent. Moist soil should then be packed firmly around the roots. Seedlings should be planted at a depth where their root collars lie just below the ground surface. Air pockets should not be left after closing the hole which would allow the roots to dry out. See planting details for further explanation. If the contractor wishes to plant by another method, the Landscape Architect must be contacted and give his approval before planting may begin.

### Planting Layout See Detail and Description Below.

Soil: Upon the completion of all grading operations, a soil test shall be conducted to determine what soil preparation and soil amendments, if any, are necessary to create good tree growing conditions. Soil samples shall be taken at a rate that provides one soil sample for each area that appears to have a different soil type (if the entire area appears uniform, then only one sample is necessary), and submitted for testing to, and according to the instructions provided by:

> The Soil Testing Laboratory Agronomy Department H.J. Pattersen Hall University of Maryland College Park, Maryland 20742

These field tests will be processed for \$5 each, which includes the soil laboratory sending the test results to the Cooperative Extension Service of Prince George's County at the University will be tested and recommended for corrections of soil texture, pH, magnesium, phosphorous potassium, calcium and organic matter.

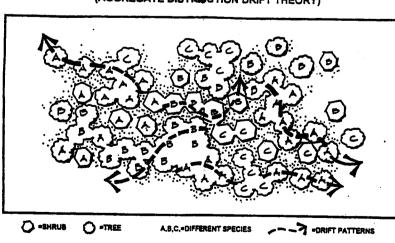
- Soil Improvement Measures: The soil shall then be improved according to the recommendations made by the Cooperative Extension Service.
- 10. Fencing: (see Reforestation Area Fence Detail)

Porest protection device only Retention Area will be set as part of the review process.

(TPF-TYPE I)

- Planting Method: consult the Seedling Planting Detail shown on this plan.
- Mulching: apply 2" thick layer of woodchip mulch to each planting site (see detail shown on
- 13. Time of Planting: The seedlings must be planted in March or April.oc. October Northwest
- 14. Groundcover establishment: The remaining disturbed area between seedling planting sites shall be seeded with White Clover at the rate of 5 lbs pe acre.
- 15. <u>Mowing</u>: The clover field area within the seedling planting area is to be mowed once a month during the growing season until the seedlings attain a height of 4' or more.
- 16. Survival Check: The seedling planting is to be checked at the end of each year for two years to assure that no less than 75% of the original planted quantity survives. Fire FOND RELEASE
- 17. Source of Seedlings: Md. Forest, Park and Wildlife Service in Bowle, Md.; Phone 464-3065

#### PLANTING LAYOUT (AGGREGATE DISTRIBUTION DRIFT THEORY)



Sweep. A cluster type grouping which tapers or feathers out along

egate massing or drifts are one of the most common vegetation distribution Aggregate massing or ome are one or the most common vegetation distribution patterns occurring in nature. Principle seed bearers are at the central core of the cluster with seed dispersal outwards, often windblown, with densities thinning out along the fringes or extremities (groupings blend through and into other groupings), imagine the fallout of windblown milkweed seeds. They often appear as aggregate

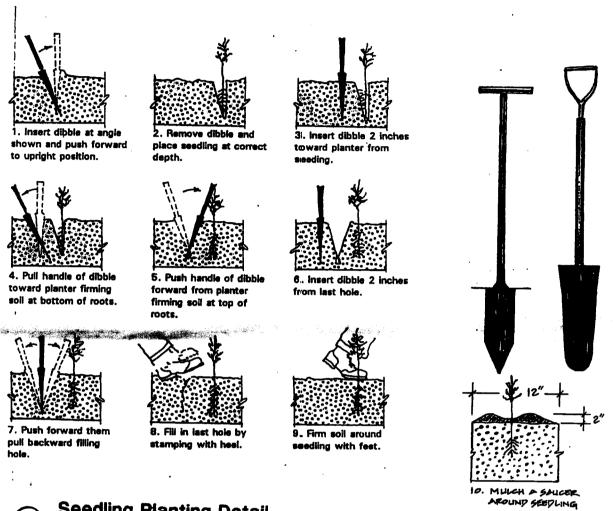
then developing a planting plan the Maryland Forest Conservation Manual (page) 98 thru 101) offers recommendations on reforestation methods, species selection, plant materials and site stocking. The manual specifically mentions spacing requirements for various stocking options. This is meant for determining the appropriate number of plants required, not necessarily a feet-on-center "grid pattern"

> Many of the State's regulatory reforestation sites installed since the inception of the Act appear as orchards. This unnatural grid pattern can be corrected thru the application of aggregate distribution. This does not mean that plants must be in a grid pattern, that drifts of shrubs cannot blend into groupings of trees or that groupings of same species cannot occur together. It simply means that the installer should meet the aforementioned forest conservation act criteria at the same time replicating natures aggregate drift patterns (see detail).

When using this theory to lay out a planting plan the size of the drifts should depend on the quantity of plants allocated, the scale of the site, and the careful consideration

## PRE-CONSTRUCTION ACTIVITIES

- Prior to any disturbance of the site, the tree save lines shall be field located by surveying techniques and the appropriate tree protective device (see detail) shall be erected along these designated lines. Only after the tree protective devices have been installed shall any tree cutting or other clearing, grubbing or grading operations begin. All protection devices shall remain in place until all construction has ceased in the immediate vicinity. Devices shall be maintained throughout construction. Attachment of signs, or any other objects, to trees is prohibited. No equipment, machinery, vehicles, materials or excessive pedestrian traffic shall be allowed within protected areas.
- After the boundaries of the retention area have been staked and flagged and before any disturbance has taken place on site. a pre-construction meeting at the construction site shall take place. The developer, contractor or project manager, and appropriate local inspectors shall attend.
- Only after final grading, stabilization, and removal of controls has been accomplished may reforestation begin. Reforestation techniques and methods must comply with the details and specifications provided hereon.



Seedling Planting Detail

Not To Scale

### 5 YEAR MANAGEMENT PLAN FOR RE/AFFORESTATION Field check the re-afforestation area according to the following schedule:

Site Preparation and Tree Planting

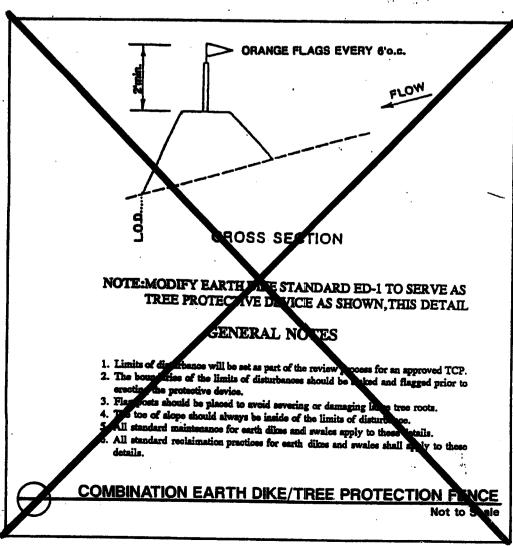
Survival check 3 times (March-April, July-August, October-November, see Note 1) Control of undesirable vegetation as needed (1 x in June & 1 x in September min.)

Reinforcement planting if needed (see Note 2 Survival check twice annually (April-May),

Control of undesirable vegetation if needed (1 x in May & 1 x in August min.) Reinforcement planting if needed (See Note 2)

Survival Check: Check planted stock against plant list (or asbuilt) by walking the site and taking inventory. Plants must Submit field data forms (Condition Check Sheets) to owner after each inspection. Remove all dead

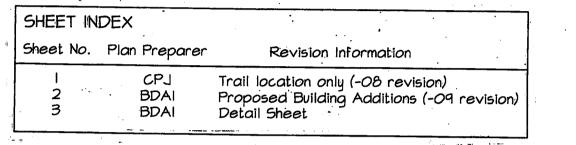
- 2) Reinforcement Planting: Replace dead or missing plants in sufficient quantity to bring the total number of live plants to at least 75% of the number originally planted. If a particular species auffers unusually high mortality, replace with an
- Miscellaneous: Fertilization or watering during years through 3 will be done on an as needed basis. Special return operations or recommendations will be conducted on an as eded basis. Remove perimeter fencing and signage after year 5 based on the date planted.

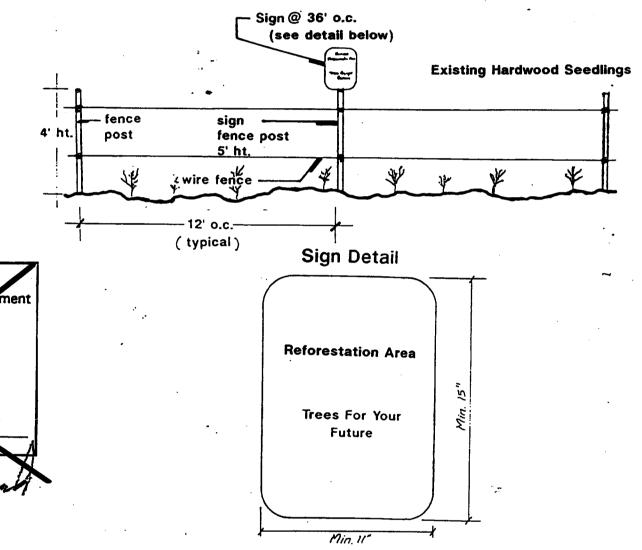


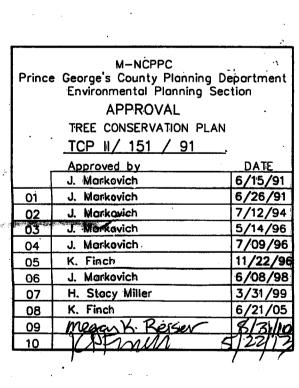


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<u>Key</u>	Botanical Name/Common Name	<u>Size</u>	Spacing	Quantity	Method
Α	Amelanchier canadensis/Serviceberry	3'-4'	As shown	28	B. & B.
В	Betula nigra/River Birch	3'-4'	As shown	30	B. & B. or cont.
С	Cercis canadensis/Redbud	18-24"	As shown	· 28	B. & B. or cont.
D	Fraxinus pennsylvaticum/Green Ash	4'-5'	As shown	23	B. & B.
E	Ilex opaca/American Holly	1.5'-2'	As shown	29	B. & B. or cont.
F	Juniperus virginiana/Eastern Red Cedar	2'-3'	As shown	111	B. & B.
G	Kalmia latifolia/Mountain Laurel	15-18"	As shown	38	B. & B. or cont.
H	Celtis occidentialis/Common Hackberry	3'-4'	As shown	60	B. & B.
J	Cornus florida/Flowering Dogwood	±24"	As shown	28	2 gal. cont.
M	Acer rubrum/Red Maple	18-24"	As shown	15	2 gal. cont.
0	Chionanthus virginicus/Fringe Tree	3'-4'	As shown	10	B. & B.
P	Nyssa sylvatica/Black Gum	4'-5'	As shown	17	B. & B.
R	Cotinus americanus/American Smoketree	3'-4'	As shown	34	B. & B.
S	Crataegus phaenopyrum/Washington Hawthorn	3'-4'	As shown	40	B. & B.
T	Leucothoe racemosa/Fetter-bush	12'48"	As shown	<b>25</b>	2 gal. cont.
U	Hypericum Prolificum/Shrubby St. John's Wort	12`"	As shown	189	cont.
V	Viburnum dentatum/Arrowood Viburnum	18'-24"	As shown	60	B. & B. or cont.
W	Vaccinium corymbosum/Highbush Blueberry	18'-24"	As shown	39	B. & B. or cont.

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M-NCPPC

ural Resources Division

TREE CONSERVATION PLAN

Prince George's County Planning Department

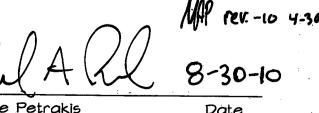
**Reforestation Area Fence Detail** 

**DETAILS and SPECIFICATIONS** 

TREE CONSERVATION PLAN - TYPE II

PARCELS 4, 9, 10, 84, 86 LOTS 1,2,3,4 & 7 BABEST, PARCEL "A" FAIRLAND REGIONAL PAR

THE GARDENS ICE HOUSE



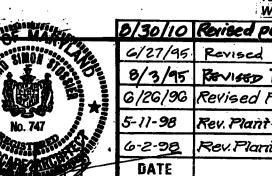
Mike Petrakis Qualified Professional COMAR 08.19.06.01

FAIRLAND REGIONAL RAR LAUREL ELECTION DISTRICT NO. 10

PRINCE GEORGE'S COUNTY, MARYLAND Prince George's County Street Map No. 3 Grids:F-6,F-7, F-8, G-6, G-7 & G-8

Tax Map No. 8 Grids:E-1, E-2, F-1 & F-2

W.S.S.C. Grids: 217NE4, 217NE5, 218NE4 & 218NE5



B/30/10 Revised per M-NCPPC comments. Revised Plant List 8/3/95 REVISED PLANT SIZES PER J.P.M.; APPROAL & 6/26/96 Revised Plant List A Rev. Plant List For Afforestation. Rev. Plant List For Afforestation

Sheet 3 of 3

DESCRIPTION CALE AS SHOWN -REVISIONS

J- 95013

4-30-13 Added outdoor ice rink

No Scale