

TYPE II TREE CONSERVATION NOTES

- Cutting or clearing of woodland not in conformance with this plan or without the expressed written consent of the Planning Director or designee, shall be subject to a \$1.50 per square foot mitigation fee.
- The Department of Environmental Resources (DER) Inspection and Code Compliance Section (301-883-6033), must be contacted 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 Areas, 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 shall be posted with the Building Official prior to the issuance of any permits. These bonds will be retained as surety by the Building Official until all required activities have been satisfied. Three copies of the bonds are submitted with the grading permit ap-
- All required off-site mitigation shall be identified on an approved TCPII for the off-site location and shall be recorded as an off-site easement in the land records of Prince George's County prior to issuance of any permits for the subject property.
- The location of all Tree Protection Devices (TPD's) shown on this Plan, shall be flagged or staked in the field prior to the pre-construction meeting with the Sediment and Erosion Control Inspector from DER. Upon approval of the flagged or staked TPD locations by the Inspector, 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.
- Mork on this project will be iniated in several phases. All TPDs required for a given phase shall be installed prior to any disturbance within that phase of work.
- 3. Woodland Conservation Tree Save Areas and/or Reforestation Areas shall be posted as shown at the same time as the Tree Protective Device 7 installation and/or start of reforestation activities. These signs shall remain in place.
- 7. All tree planting for woodland replacement, reforestation or afforestation will be completed prior to Use and Occupancy Permit. Failure to establish the woodland replacement, reforestation or afforestation within the prescribed time frame will result in the forfeiture of the Reforestation Bond and/or a violation of this Plan including the associated \$1.50 per square foot penalty unless a written extension is approved by the DER inspector.
- 10. The DER Inspector shall be notified prior to soil preparation or initiation of any tree planting on this site.
- . Results of survival checks for all tree plantings shall be reported to the DER Inspector for the site and M-NCPPC, Environmental Planning Section...
- 12. Prior to the issuance on any permits, the contractor responsible for soil preparation, site preparation, tree planting and tree maintenance must be identified.

Business Name Address Phone Number

ation areas.

## NATURAL REGENERATION NOTES

All areas designated for reforestation shall be reforested by natural regeneration. The following requirements and conditions apply:

- All existing turf, ground covers, and invasive species shall be exterminated using a general broadcast herbicide such as "Round-Up" or equivalent. Secondary applications shall be applied as necessary. 2) Care shall be taken to avoid spraying any hardwood seedlings or
- B) Roto-tilling of turf areas and manual removal of invasive vines shall be completed two weeks after chemical treatments are completed. f) Reforestation signs shall be installed every fifty feet and two
- 5) Reforestation internal to the site shall be posted as required in the direction of any trails used to reach those areas. 6) Natural regeneration shall be encouraged by semi-annual maintenance of the designated areas. The maintenance shall, at a minimum, require

strand wire fencing on any road frontage adjacent to any reforest-

- removal of competitive and invasive species from the desired indigenous hardwoods. This maintenance shall occur for a period of two years. After one and two years all desirable seedlings and saplings shall be counted and flagged with surveyors tape in the late fall.
- 3) If after two years there is less than one seedling per 60 square feet and there are indications that natural regeneration is not occurring adequately then the owners shall plant those areas with container grown seedlings at a rate of one per 60 square feet. Only naturally occurring species already present within the site shall be used.

Field check the re-afforestation area according to the following schedule:

- Site Preparation and Tree Planting <u>Survival check</u> once annually (September-November, see Note 1) <u>Matering if needed</u> (2 x month) Control of undesirable vegetation as needed (1 x in June & 1 x in September min.)
- Year 2-3: Reinforcement planting if needed (see Note 2) Survival check once annually (September-November) Control of undesirable vegetation if needed (I x in May \$  $1 \times \text{in August min}$ .
- Year 4-5: Reinforcement planting if needed (See Note 2)

<u>Survival check</u> once annually (September-November)

- 1) Survival Check: Check planted stock against plant list (or as-built) by walking the site and taking inventory. Plants must show vitality. Submit field data forms (Condition Check Sheets) to owner after each inspection. Remove all dead plants.
- 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 suffers unusually high mortality, replace with an alternate plant
- 3) Miscellaneous: Fertilization or watering during years I through 3 will be done on an as needed basis. Special return operations or recommendations will be conducted on an as needed basis. Remove perimeter fencing and signage after year 5 based on the date planted.

## PLANTING SPECIFICATIONS FOR RE/AFFORESTATION AREAS

Quantity: (see Plant Schedule)

- 3. Plant Quality Standards: The 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 striped from the plant during the digging process. Substantial auxiliary/fibrous roots shall be present.
- Plants that do not have 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 or removal from the greenhouse, 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 material and shall be maintained through periodic watering, until the time of planting.
- 4. 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 or temporary storage area shall be planted immediately.
- 5. Timing of Planting: The best time to plant seedlings is while they are dormant, prior to spring budding. The most suitable months for planting are March and April, when the soil is moist. November and early December are also acceptable planting times for this region as cool and cloudy weather is considered ideal. Planting shall occur within one growing season of the issuance of grading/ building permits and/or reaching the final grades and stabilization of planting
- 6. Seedling Planting: Tree seedlings can be hand planted using a dibble bar or sharp-shooter 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 roots 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 preparer of this tree conservation plan must be contacted and give his approval before planting may begin.
- Spacing: See Plant Schedule and/or Planting Plan for spacing requirements. Also refer to the Planting Layout detail for a description of the general planting
- 8. 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 a private company. The company of choice shall make recommendations for improving the existing soil.
- The soil will be tested and recommended for corrections of soil texture, pH, magnesium, phosphorous, potassium, calcium and organic matter. 9. Soll Improvement Measures: The soil shall then be improved according to the
- recommendations made by the testing company. 10. Fencing \$ Signage: Final protective fencing shall be placed on the visible and/or development side of planting areas. The protective fence shall be installed upon completion of planting operations. Signs shall be posted per the signage detail
- II. Planting Method: Consult the Planting Detail(s) shown on this plan. 12. Mulching: Apply 2" thick layer of woodchip or shredded hardwood mulch (as
- noted) to each planting site (see detail shown on this plan) 13. Groundcover Establishment: The remaining disturbed area between seedling planting sites shall be seeded and stabilized with white clover seed at the
- 14. Mowing: No mowing shall be allowed in any planting area.
- 15. Survival Check for Bond Release: 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

(410) 673-2467

- original planted quantity survives. 16. Source of Seedlings: John S. Ayton State Forest Tree Nursery 3424 Gallagher Road Preston, MD 21655
- 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.
- 2. 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.
- 3. Reforestation planting shall be done after the final grading is established, stabilized and approved by SCD. Reforestation techniques and methods must comply with the details and specifications provided hereon.

WOODLAND CONSERVATION AREA MANAGEMENT NOTES

- Removal of Hazardous Trees or Limbs by Developers or Builders The developer and/or builder is responsible for the complete preservation of all forested areas shown on the approved plan to remain undisturbed. Only trees or parts thereof designated by the Department of Environmental Resources as dead, diling or hazardous may be removed.
- I. A tree is considered hazardous if a condition is present which leads a Licensed Arborist or a Licensed Tree Expert to believe that the tree or a portion of the tree has a potential to fall and strike a structure, parking area or other high use area and result in personal injury or property damage
- 2. If a hazardous condition may be alleviated by corrective pruning, the Licensed Arborist or a Licensed Tree Expert may proceed without further authorization. The pruning must be done in accordance with the latest edition of the ANSI A-300 Pruning Standards ("Tree Shrub and Other Woody Plant Maintenance - Standard Practices").
- 3. Corrective measures requiring the removal of the hazardous tree or portions thereof shall require authorization by the building or grading inspector if there is a valid grading or building permit for the subject lots or parcels on which the trees are located. Only after approval of the appropriate inspector, may the tree be cut by chainsaw to near the existing ground level. The stump may not be removed or covered with soil, mulch or other materials that would
- 4. Debris from the tree removal or pruning that occurs within 35 feet of the woodland edge may be removed and properly disposed of by recucling, chipping or other acceptable methods. All debris that is more than 35 feet from the woodland edge shall be cut up to allow contact with the ground, thus encouraging decomposition. The smaller materials shall be placed into brush piles that will serve as wildlife habitat.

## Removal of Hazardous Trees, Limbs, Noxious Plants, Invasive Plants or Non-native Plants in Woodland Conservation Areas Owned by Individual

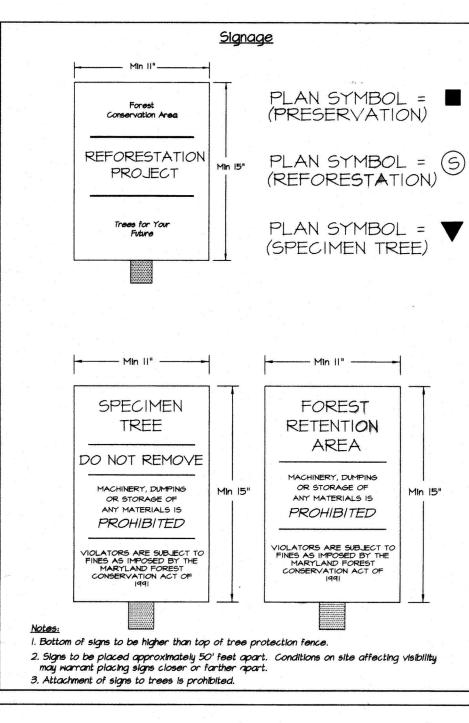
- 1. If the developer or builder no longer has an interest in the property, the homeowner shall obtain a written statement from the Licensed Arborist or Licensed Tree Expert Identifying the hazardous condition and the proposed corrective measures prior to having the work conducted. The tree may then be removed by the arborist or tree expert. The stump shall be cut as close to the ground as possible and left in place. The removal or grinding of the stumps in the woodland conservation area is not permitted.
- 2. The removal of noxious, invasive and non-native plant species from the woodland conservation areas may be done with the use of hand-held equipment only, such as pruners or a chain saw. These plants may be cut near the ground and the material less than two inches diameter may be removed from the area and disposed of appropriately. All material from these noxious, invasive and non-native plants greater than two (2) inches diameter shall be cut to allow contact with the ground, thus encouraging
- 3. The use of broadcast spraying of herbicides is not permitted. However, the use of herbicides to discourage re-sprouting of invasive, noxious, or non-native plants is permitted if done as an application of the chemical directly to the cut stump immediately following the cutting of plant tops. The use of any herbicide shall be done in accordance with the label instr-
- Note: The use of chainsaws is extremely dangerous and should not be conducted with poorly maintained equipment, without safety equipment, or by individuals not trained in the use of this equipment for the pruning and/or cutting of trees.
- Protection of Reforestation and Afforestation Areas by Developers or Builders l. Reforestation and afforestation areas shall be planted prior to occupancy of the nearest building or residence. If planting cannot occur due to planting conditions, the developer or property owner shall install the fencing and signage in accordance with the approved Type II Tree Conservation Plan. Planting shall then be accomplished during the next plantling season. If planting is delayed beyond the transfer of propertu title, to the homeowner, the developer shall obtain a signed statement from the purchaser indicating that they understand that the reforestation area is located on their property and that reforestation will occur during the next planting season. A copy of that document shall be presented to the grading inspector and the environ-
- 2. Reforestation areas shall not be moved, however the management of competing vegetation around individual trees is acceptable.
- Protection of Reforestation and Afforestation Areas by Individual Homeowners . Reforestation fencing and signage shall remain in place in accordance with the approved Type II Tree Conservation Plan or until the trees have grown sufficiently to have crown closure.
- 2. Reforestation areas shall not be moved, however, the management of competing vegetation around individual trees is acceptable. Moodland Areas NOT Counted as Part of the Woodland Conservation Requirements I. A revised Tree Conservation Plan is required prior to clearing any woodland area which is not specifically identified to be cleared on the most recently approved Type II Tree Conservation Plan (TCP) on file in the office of the M-NCPPC, Environmental Planning Section located on the 4th floor of the County Administration

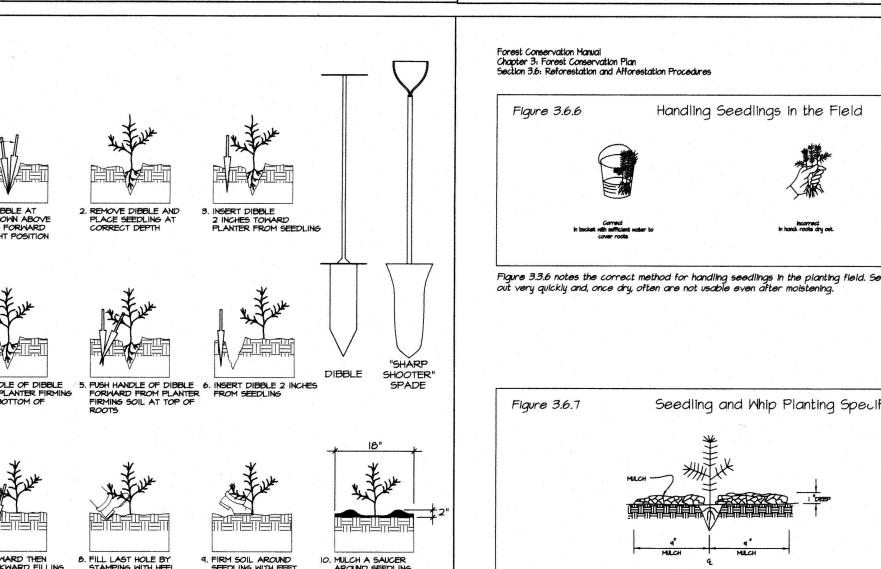
Building at 14741 Governor Oden Bowle Drive, Upper Marlboro, Maryland 20772, phone 301-952-3650. Additional mitigalton will be required for the clearing of all woodlands

be subject to additional replacement requirements, mitigation and fees which must be reflected on TCP revisions approved by the M-NCPPC Environmental Planning Section.

beyond that reflected on the approved plans. Although clearing may be allowed, it may

2. Homeowners or property owners may remove trees less than two (2) inches diameter, shrubs, and vines in woodland areas which are saved but not part of the woodland conservation requirements after all permits have been released for the subject probertu. This area may not be tilled or have other around disturbances which would result in damage to the tree roots. Raking leaves and overseeding with native grasses, flowers and groundcovers is acceptable. Seeding with invasive grasses, including any variety of Kentucky 31 fescue is not acceptable.





WIRE 12 OR 14 GAUGE ---

1. Forest preservation, specimen tree and re/af-forestation protection device.

2. Protected areas will be set as part of the review process.

3. Boundaries of protected areas should be staked and flagged prior to installing

Contractor may use blaze orange tree protection fence or equal according to MD

PLAN SYMBOL

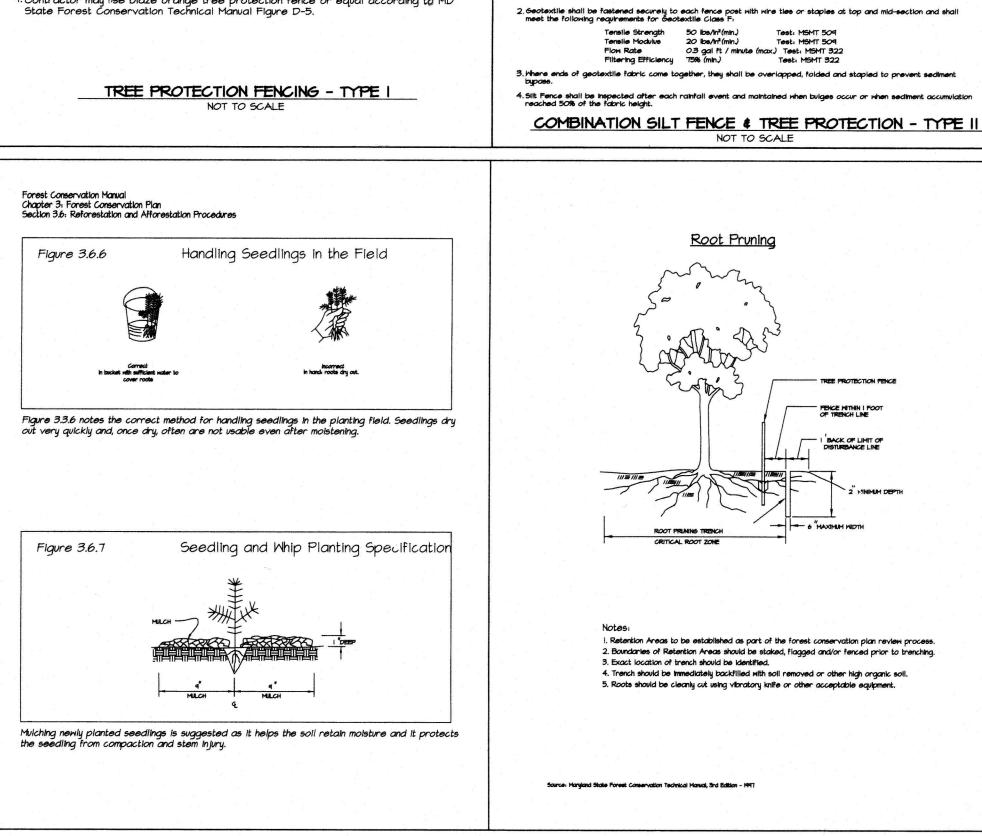
SURVEYOR'S FLAGGING -

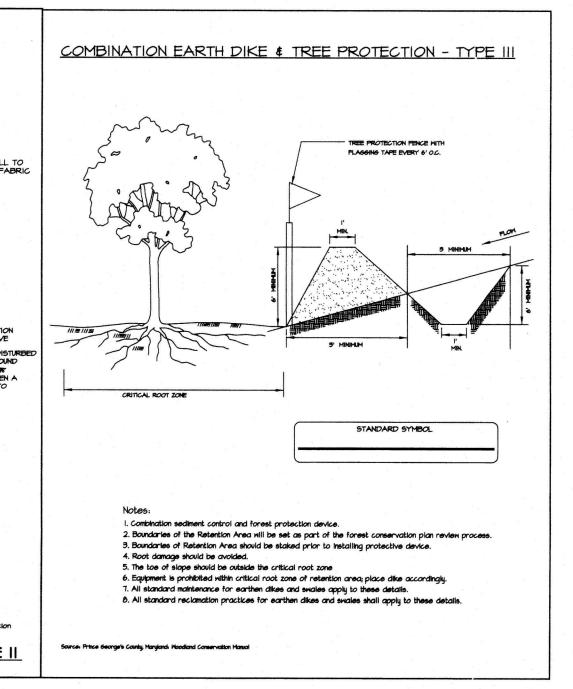
4. Avoid root damage when placing anchor posts.

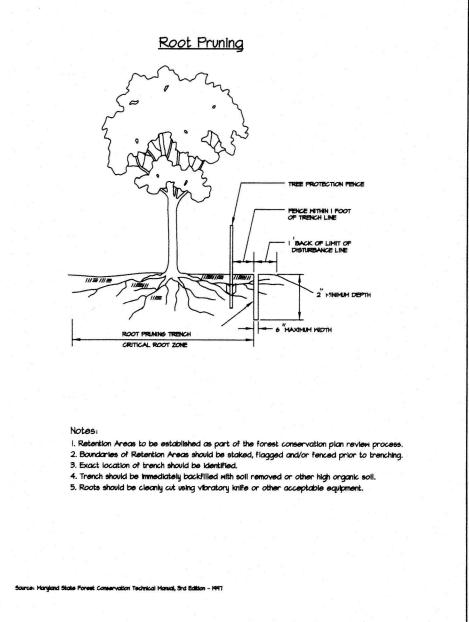
3. Protective sianage is also recommended

5. Mire should be securely attached to posts.
6. Device should be properly maintained during construction.

State Forest Conservation Technical Manual Figure D-5







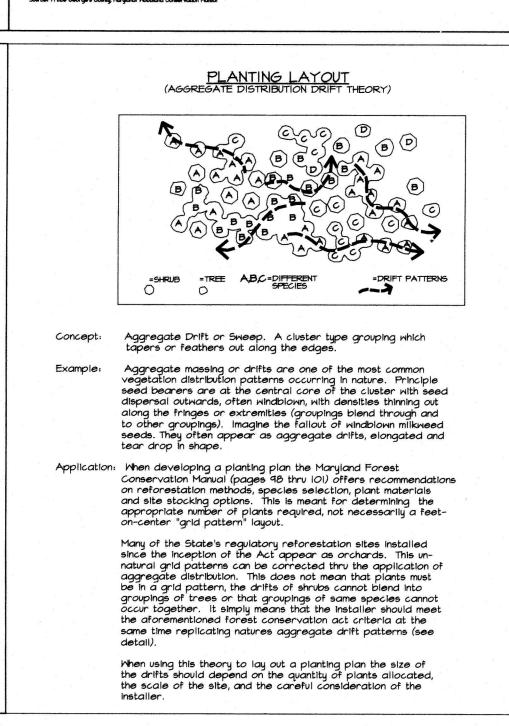
STAPLE

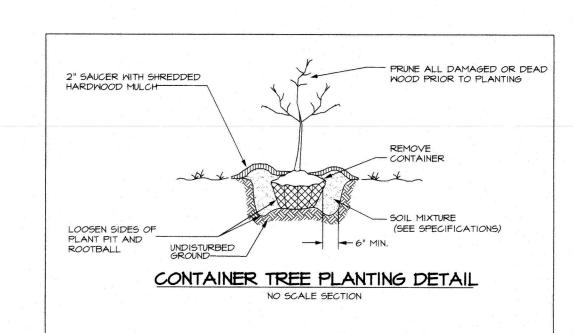
CONSTRUCTION SPECIFICATIONS

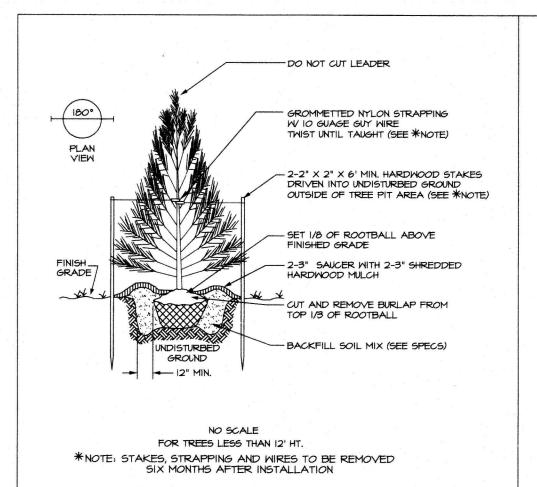
1. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Mood posts shall be  $1 \cdot 1/2$ "  $\times 1 \cdot 1/2$ " square (min.) cut, or  $1 \cdot 3/4$ " diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.

STANDARD SYMBOL

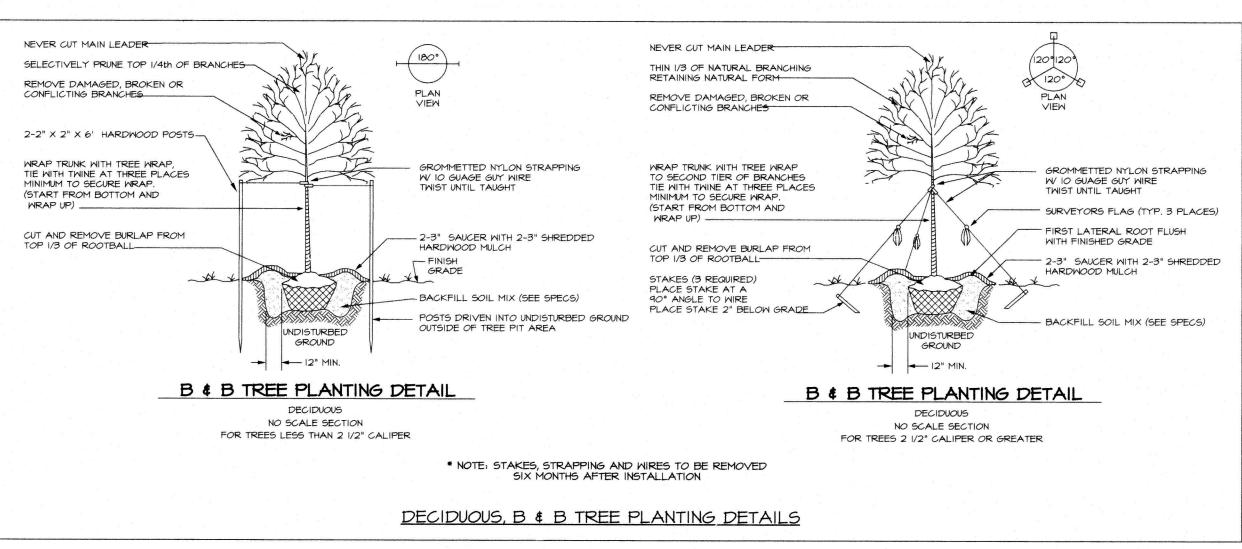
X-T-X

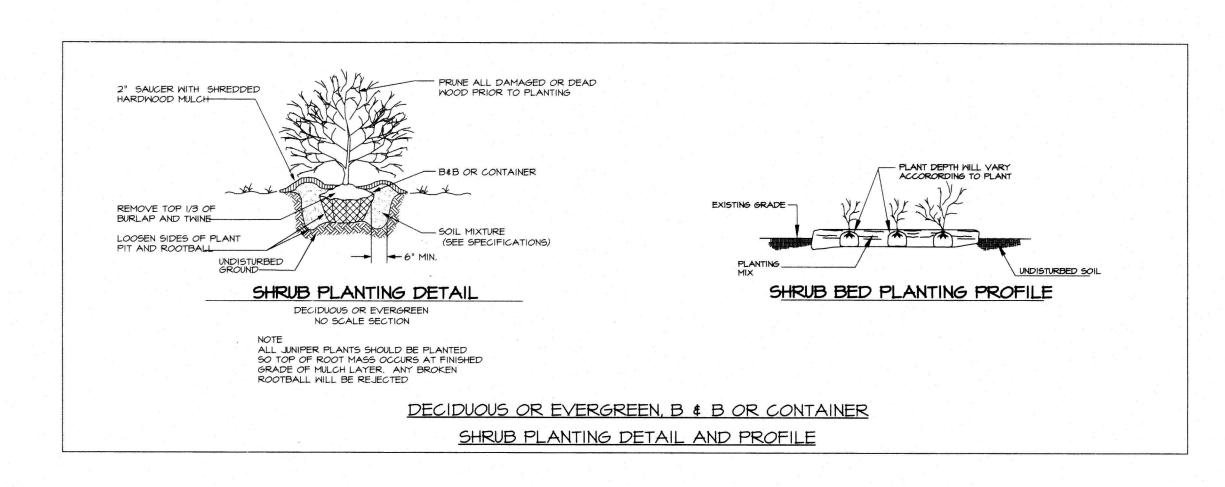






EVERGREEN TREE PLANTING DETAIL

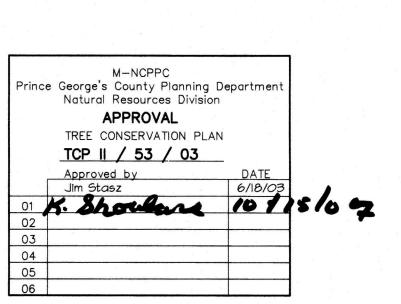




STOCK SPECIFICATION: 1000 SEEDLINGS PER ACRE TOTAL RE/AFFORESTATION PROVIDED: 1.58 ACRES

Reforestation Area	Acreage	Seedling Selection					
		Tulip Poplar	Sweet Gum	Red Maple	Red Oak	White Oak	Total No. of Seedlings
1	1.58	316	316	316	316	316	1,580
TOTAL	1.58	316	316	316	316	316	1,580

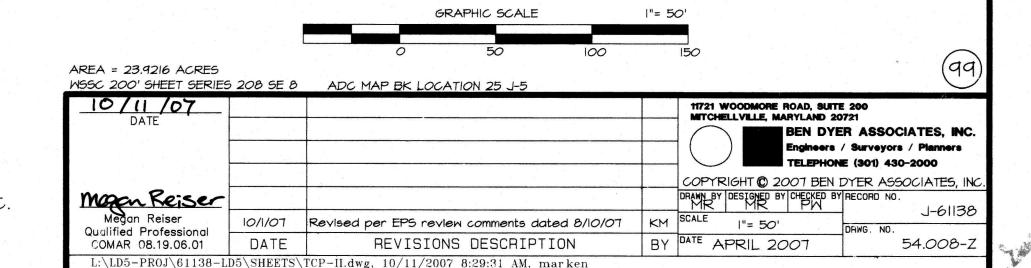
I - All tree/shrub species planted within the re/afforestation areas, should be randomly distributed throughout the proposed relafforestation area, so as to promote a natural woodland structure. 2 - In the event of species unavailability, a substitution may be made. Any substitution made requires written notification to MNCPPC, Environmental Planning Section.



TREE CONSERVATION PLAN - TYPE II LOTS 10-12, BLOCK B AND LOTS 4-7, BLOCK C

DOWER EMPLOYMENT CENTER MELWOOD DISTRICT No. 15

PRINCE GEORGES COUNTY, MARYLAND



OWNER/APPLICANT: RODNEY L. FALLER 611 LIGHTHOUSE LANDING LANE ANNAPOLIS, MARYLAND 21401 c/o THE MICHAEL COMPANIES, INC. Attn: TOM MILBOURNE