

GENERAL NOTES

- This plan is submitted to fulfill the woodland conservation requirements for a grading permit. If this grading permit expires, then this TCP2 also expires and is no longer valid.
- Cutting or clearing of woodland not in conformance with this plan or without the expressed written consent of the Planning Director or designee shall 2. be subject to a \$9.00 per square foot mitigation fee.
- A pre-construction meeting is required prior to the issuance of grading permits. The Department of Permits, Inspections and Enforcement shall be contracted prior to the start of any work on the site to conduct a pre-construction meeting where implementation of woodland conservation
- The developer or builder of the lots or parcels shown on this plan shall notify future buyers of any woodland conservation areas through the provision of a copy of this plan at time of contract signing. Future property owners are also subject to these requirements.

measures shown on this plan will be discussed in detail.

- The owners of the property subject to this tree conservation plan are solely responsible for conformance to the requirements contained herein.
- The property is within the Developing Tier and is zoned L-A-C and R-M. The property is adjacent to Brandywine Road Maryland Route 381 which is
- The property is adjacent to US 301/Maryland Route 5 and Mattawoman Road which are classified as arterial or greater roadway.
- This plan is/is not grandfathered under CB-27-2010, Section 25-177(q).

REE PRESERVATION AND RETENTION NOTES

a designated scenic and historic roadway.

- Ail woodlands designated on this plan for preservation are the responsibility of the property owner. The woodland areas shall remain in a natural state. This includes the canopy trees and understory vegetation. A revised tree conservation plan is required prior to clearing woodland areas that are not specifically identified to be cleared on the approved
- Tree and woodland conservation methods such as root pruning shall be conducted as noted on this plan.
- The location of all temporary tree protection fencing (TPFs) shown on this plan shall be flagged or staked in the field prior to the pre-construction meeting. Upon approval of the locations by the county inspector, installation of the TPFs may begin.
- All temporary tree protection fencing required by this plan shall be installed prior to the commencement of clearing and grading of the site and shall remain in place until the bond is released for the project. Failure to install and maintain temporary or permanent tree protective devices is 2. Tupe: (See Plant Schedule) a violation of this TCP2.
- Woodland preservation areas shall be posted with signage as shown on the plans at the same time as the temporary TPF installation. These signs must remain in perpetuity. 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 part thereof designated by the county as dead, dying, or hazardous may be removed.
- A tree is considered hazardous if a condition is present which leads a Certified Arborist or 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
- During the initial stages of clearing and grading, if hazardous trees are present, or trees are present that are not hazardous but are leaning into the disturbed area, the permitee shall remove said trees using a chain saw. Corrective measures requiring the removal of the hazardous tree or portions thereof shall require authorization by the county inspector. Only after approval by the inspector may the tree be cut by chain saw to near the existing ground level. The stump shall not be removed or covered with soil, mulch or other materials that would inhibit sprouting.
- If a tree or trees become hazardous prior to bond release for the project, due to storm events or other situations not resulting from an action by the permitee, prior to removal, a Certified Arborist or a Licensed Tree Expert must certify that the tree or the portion of the tree in question has a potential to fall and strike a structure, parking area, or other high use area and may result in personal injury or property damage. If a tree or portions thereof are in imminent danger of striking a structure, parking area, or other high use area and may result in personal injury or property damage then the certification is not required and the permitee shall take corrective action immediately. The condition of the area shall be fully documented through photographs prior to corrective action being taken. The photos shall be submitted to the inspector for documentation of the damage.
- If corrective pruning may alleviate a hazardous condition, the Certified Arborist or a Licensed Tree Expert may proceed without further authorization. The pruning must be done in accordance with the latest edition of the appropriate ANSI A-300 Pruning Standards. The condition of the area shall be fully documented through photographs prior to corrective action being taken. The photos shall be submitted to the inspector for documentation of the damage.
- Debris from the tree removal or pruning that occurs within 35 feet of the woodland edge may be removed and properly disposed of by recycling, chipping or other acceptable methods. All debris that is more than 35 feet from the woodland edge shall be cut up to allow contract with the ground, thus encouraging decomposition. The smaller materials shall be placed into brush piles that will serve as wildlife habitat.
- Tree work to be completed within a road right-of-way requires a permit from the Maryland Department of Natural Resources unless the tree removal is shown within the approved limits of disturbance on a TCP2. The work is required to be conducted by a Licensed Tree Expert.
- Work on this project will be initiated in several phases. All temporary TPFs required for a given phase shall be installed prior to any disturbance within that phase of work.
- Tree protection fencing (TPFs) is not required for all or portions of this plan because an undisturbed 100-foot buffer of open land/or a 50-foot forested buffer is being maintained between the limit of disturbance (LOD) 13. and the woodland preservation areas. If the LOD changes and the change impacts these buffers, the county inspector shall be contacted to evaluate the change to determine if a revision to the tree conservation plan is necessary or if installation TPFs will be required.

AFFORESTATION AND REFORESTATION NOTES

- All afforestation and reforestation bonds, based on square footage, shall be posted with the county prior to the issuance of any permits. These bonds will be retained as surety until all required activities have been satisfied or the required timeframe for maintenance has passed, whichever is longer.
- The planting of afforestation or reforestation areas shall be completed prior to the issuance of the first building permit. (This standard note may be modified as necessary to address which building permits are adjacent to the proposed planting areas.) Seedling planting is to occur from November through May only. No planting shall be done while ground is frozen. Planting with large caliper stock or containerized stock may be done at any time provided a detailed maintenance schedule is provided.
- 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 2 ree Conservation Plan. Planting shall then be accomplished during the next planting season. If planting is delayed beyond the transfer of the property title to they understand that the reforestation area is located on their property and that refórestation will occur during the next planting season. A copy of that document shall be presented to the Grading Inspector and the county.
- Reforestation areas shall not be mowed. The management of competing vegetation around individual trees and the removal of noxious, invasive, and non-native vegetation within the reforestation areas is acceptable.
- All required temporary tree protection fencing shall be installed prior to the clearing and arading of the site and shall remain in place until the permanent tree protection fencing is installed with the required planting. The temporary fencing is not required to be installed if the permanent fencing is installed prior to clearing and grading of the site. Failure to install and maintain temporary or permanent tree protective fencing is a violation of this TCP2.
- Afforestation/reforestation areas shall be posted with notification signage, as shown on the plans, at the same time as the permanent protection fencing installation. These signs shall remain in perpetuity.
- The county inspector shall be notified prior to soil preparation or initiation of any tree planting on this site.
- At time of issuance of the first permit, the following information shall be submitted to the M-NCPPC Planning Department regarding the contractor responsible for implementation of this plan; contractor name; business name (if different); address; Results of annual survival checks for each of the required four years after tree planting shall be reported to the M-NCPPC, Planning Department.
- Failure to establish the afforesation or reforestation within the prescribed time frame will resulting the forfeiture of the reforestation bond and/or a violation of this plan including the associated \$9.00 per square foot penalty unless the county inspector approves a written extension.

PLANTING SPECIFICATION NOTES

- Quantity: (See Plant Schedule)
- 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 3. than twenty-five percent (25%) of the root system (both primary and 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 green house, 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 6. material and shall be maintained through periodic watering, until the time of planting.
- Planting Handling: The quantity of seedlings taken to the field shall not exceed the quantity that can be plated in a day. Seedlings, once removed from the nursery or temporary storage area shall be planted immediately.
- 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, but may be planted from March through November. No planting shall be done while ground is frozen. Planting shall occur within one growing season of the issuance of grading/building permits and/or reaching the final grades and stabilization of planting areas.
- Seedling Planting: Tree seedlings shall 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 lie just below around 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 contracted and give his approval before planting may begin.
- Spacing: See Plant Schedule and/or Planting Plan for spacing requirements. Aiso refer to the Planting Layout detail for a description of the general planting theory.
- 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 soll texture, pH, magnesium, phosphorus, potassium, calcium and organic matter.
- Soil Improvement Measures: The soil shall then be improved according to the recommendations made by the testing company.
- Fencing and Signage: Final protective fencing shall be placed on the visible and/or development side of planting areas. The final protective fence shall be installed upon completion of planting operation unless it was installed during the initial stages of development. Signs shall be posted per the signage detail on this sheet.
- Planting method: Consult the Planting Detail(s) shown on this plan.
- Mulching: Apply two-inch thick layer of woodchip or shredded hardwood mulch (as noted) to each planting site (see detail shown on this plan).
- Groundcover Establishment: The remaining disturbed area between seedling planting site shall be seeded and stabilized with white clover seed at the rate of 5 lbs/acre.
- 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 four years to assure that no less than 75% of the original planted quantity survives. If the minimum number has not been provided the area must be supplemented with additional seedlings to reach the required number at time of planting.
- 16. Source of Seedlings: State name, address, and phone number of nursery or supplier. When areas designated for reforestation will be reforested by natural regeneration the following notes shall be added to the plan:

FOUR-YEAR MANAGEMENT PLAN FOR RE/AFFORESTATION AREAS

- Field check the re-afforestation area according to the following schedule:
- Site Preparation and Tree Planting Survival check once annually (September-November) see Note 1) Watering is needed (2 x month) Control of undesirable vegetation as needed (1×10^{-5} x in June and 1×10^{-5}
- Reinforcement planting is needed (See Note 2) Survival check once annually (September-November)
- Control of undesirable vegetation if needed (1 x in May and 1 x in August min.)
- Reinforcement planting if needed. (See Note 2) <u>Survival Check</u> (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 alternative plant type. 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.

POST DEVELOPMENT NOTES

- If the developer or builder no longer has an interest in the property and the new owner desires to remove a hazardous tree or portion thereof, the new owner shall obtain a written statement from a Certified Arborist or Licensed Tree Expert Identifying the hazardous condition and the proposed corrective measures prior to having the work conducted. After property documentation has been completed per the handout "Guidance for Prince George's County Property Owners, Preservation of Woodland Conservation Areas", the arborist or tree expert may then remove the tree. 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
 - If a tree or portions thereof are in imminent danger of striking a structure, parking area, or other high use area and may result in personal injury or property damage then the certification is not required and the permittee shall take corrective action immediately. The condition of the area shall be fully documented through photographs prior to corrective action being taken. The photos shall be submitted to the inspector for documentation of the damage.
 - Tree work to be completed within a road right-of-way requires a permit from the Maryland Department of Natural Resources unless the tree removal is shown within the approve limits of disturbance on a TCP2. The work is required to be conducted by a Licensed Tree Expert.
- The removal of noxious, invasive, and non-native plant species from any woodland preservation area shall be done with the use of hand-held equipment only (pruners or a chain saw). These plants may be cut near the ground and 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 decomposition.
- 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 cutting of plant tops. The use of any herbicide shall be done in accordance with the label instructions.
- 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.
- Reforestation fencing and signage shall remain in place in accordance with the approved Type 2 Tree Conservation Plan.
- Reforestation areas shall not be mowed; however, the management of competing vegetation and removal of noxious, invasive, and non-native vegetation around individual trees is acceptable.

PLANT SCHEDULE FOR RE/AFFORESTATION

STOCK SPECIFICATION: 700 SEEDLINGS PER ACRE

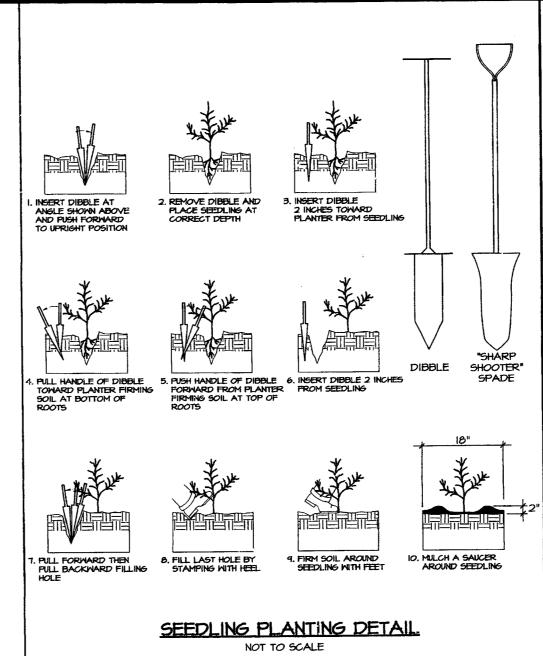
TOTAL RE/AFFORESTATION PROVIDED: 42.90 ACRES

Seedling Selection

| | Acreage | - · · · · J | | | | | <u> </u> |
|-----------------------|---------|-----------------|----------|--------------|------------|--------------|---------------------------|
| Reforestation Area | | Tulip Poplar | Sycamore | Black Gum | Red Oak | Mhite Oak | Total No. of Seedlings |
| 1 | 18.35 | 2569 | 2569 | 2569 | 2569 | 2569 | 12,845 |
| 2 | 1.05 | 147 | 147 | 147 | 147 | 147 | 735 |
| 3 | 0.69 | 97 | 97 | 97 | 96 | 96 | 483 |
| 4 | 0.85 | 119 | 119 | 119 | 119 | 119 | 595 |
| 5 | 1.03 | 144 | 144 | 144 | 144 | 145 | 721 |
| 6 | 0.29 | 40 | 40 | 41 | 41 | 41 | 203 |
| 7 | 0.22 | 31 | 31 | 31 | 31 | 30 | 154 |
| 8 | 2.94 | 412 | 412 | 412 | 412 | 410 | 2,058 |
| 9 | 1.15 | 161 | 161 | 161 | 161 | 161 | 805 |
| 10 | 3.49 | 489 | 505 | 505 | 505 | 487 | 2,443 |
| 11 | 0.22 | 31 | 31 | 31 | 31 | 30 | 154 |
| 12 | 0.05 | 7 | 7 | 7 | 7 | 7 | 35 |
| 13 | 0.36 | 50 | 50 | 50 | 50 | 52 | 252 |
| 14 | 0.28 | 40 | 39 | 39 | 39 | 39 | 196 |
| 15 | 1.07 | 149 | 150 | 150 | 150 | 150 | 749 |
| 16 | 0.13 | 18 | 18 | 18 | 18 | 19 | 91 |
| 17 | 0.16 | 22 | 22 | 22 | 23 | 23 | II2 |
| 18 | 0.21 | 30 | 29 | 29 | 30 | 29 | 147 |
| 19 | 0.24 | 34 | 33 | 34 | 33 | 34 | 168 |
| 20 | 0.20 | 28 | 28 | 28 | 28 | 28 | 140 |
| 21 | 0.56 | 78 | 79 | 78 | 79 | 78 | 392 |
| 22 | 0.17 | 24 | 24 | 23 | 24 | 24 | 119 |
| 23 | 0.98 | 137 | 137 | 137 | 137 | 138 | 686 |
| 24 | 1.58 | 221 | 221 | 221 | 221 | 220 | 1106 |
| 25 | 0.18 | 25 | 26 | 25 | 25 | 25 | 126 |
| 26 | 1.10 | 154 | 154 | 154 | 154 | 154 | 770 |
| 27 | 1.42 | 199 | 199 | 199 | 199 | 198 | 994 |
| 28 | 1.97 | 275 | 276 | 276 | 276 | 276 | 1,379 |
| 29 | 1.52 | 213 | 213 | 2 2 | 213 | 213 | 1,064 |
| 30 | 0.12 | 17 | 17 | 17 | 17 | 16 | 84 |
| 31 | 0.35 | 49 | 49 | 49 | 49 | 49 | 245 |
| TOTAL | 42.93 | 6,010 | 6,010 | 6,010 | 6,010 | 6,011 | 30,051 |

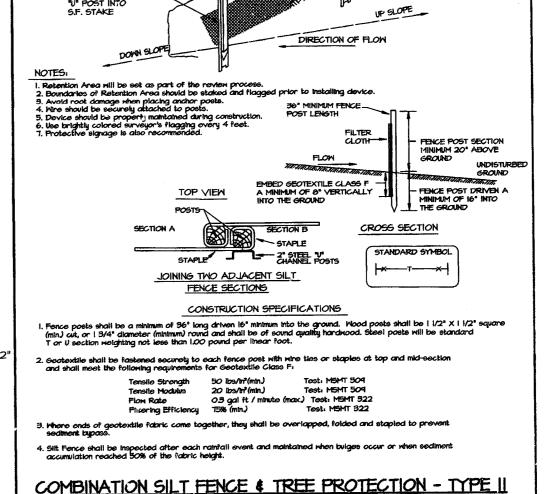
1. All tree/shrub species planted within the re/afforestation areas, should be randomly distributed throughout the proposed relafforestation area, so as to promote a natural woodland structure. (See Planting Layout detail) 2. In the event of species unavailability, a substitution may be made. Any substitution made requires written notification to MNCPPC, Environmental

Planning Section.



Mulching newly planted seedlings is suggested as it helps the soil retain moisture

and it protects the seedling from compaction and stem injury.





1. Bottom of signs to be no lower than top of tree protection fence but higher than 6'.

2. Signs to be placed approximately 50' feet apart. Conditions on site affecting visibility may warrant placing signs closer or farther apart. 3. Attachment of slans to trees is prohibited. 4. Signs to be posted on 4'x4' pressure treated wood posts driven a minimum of 1.5' into around or 2" steel "U" channel (minimum 6' length) driven into ground. 5. Signs to be attached to posts with 2 galvanized boilts, each with 2 washers and a galvanized nut.

Agaregate Drift or Sweep. A cluster type grouping which

Aggregate massing or drifts are one of the most common

reaetation distribution patterns occurring in nature. Principle

dispersal outwards, often windblown, with densities thinning out

along the fringes or extremities (groupings blend through and to other groupings). Imagine the fallout of windblown milkweed seeds. They often appear as aggregate drifts, elongated and

Conservation Manual (pages 98 thru 101) offers recommendatio

appropriate number of plants required, not necessarily a feet

on reforestation methods, species selection, plant materials and site stocking options. This is meant for determining the

since the inception of the Act appear as orchards. This unnatural arid patterns can be corrected thru the application of

agareaate distribution. This does not mean that plants must

be in a grid pattern, the drifts of shrubs cannot blend into

groupings of trees or that groupings of same species cannot

. Reforestation signs to be attached to wood posts

3. Signs to be attached using 2 galvanized wood screws

2. Top of sign to be flush with top of wood post.

SPLIT RAIL FENCE DETAIL

each with a galvanized washer.

every 50 feet.

seed bearers are at the central core of the cluster with seed

tapers or feathers out along the edges

Application: When developing a planting plan the Maryland Forest

REFORESTATION

PROJECT

Trees for Your Future

Min II"

SPECIMEN

DO NOT REMOVE

MACHINERY, DUMPING

ANY MATERIALS IS

PROHIBITED

PLAN SYMBOL = (PRESERVATION)

PLAN SYMBOL =

PLAN SYMBOL =

(REFORESTATION)

(SPECIMEN TREE)

----- Min II" ------

FOREST

RETENTION

AREA

MACHINERY, DUMPING

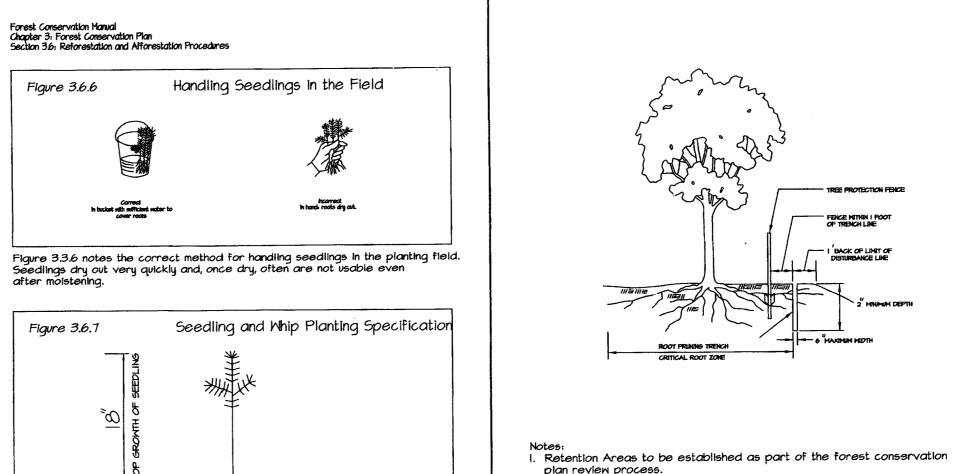
OR STORAGE OF

PROHIBITED

---- 4'x4' Pressure Treated P

or 2" Steel "U" Channel (min. 6' length)

ANY MATERIALS IS

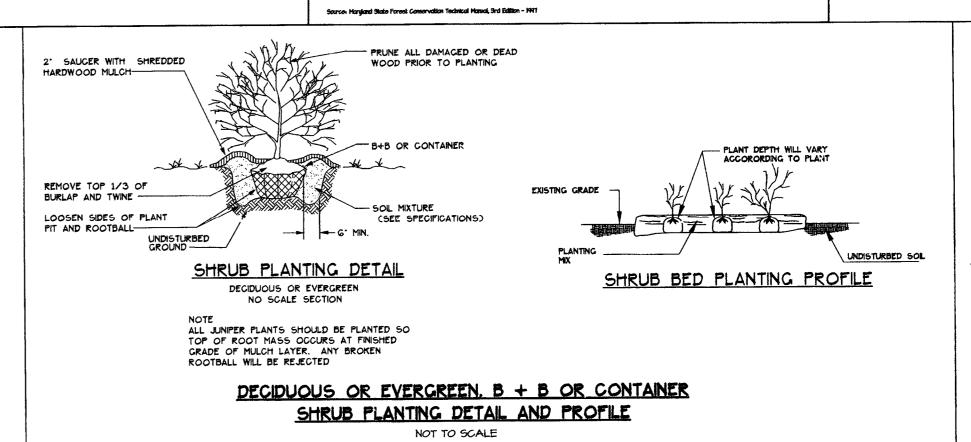


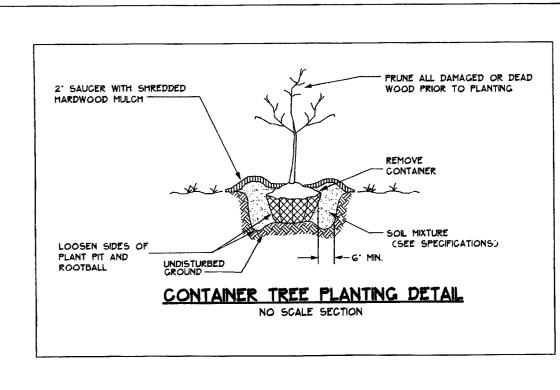
plan review process 2. Boundaries of Retention Areas should be staked, flagged and/or fenced 3. Exact location of trench should be identified. 4. Trench should be immediately backfilled with soil removed or other high 5. Roots should be cleanly cut using vibratory knife or other acceptable

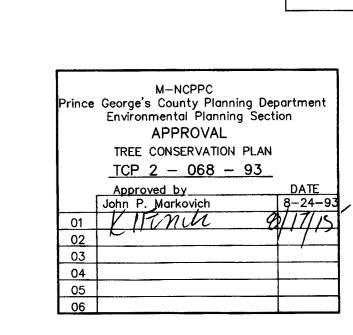
ROOT PRUNING

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 the drifts should depend on the quantity of plants allocated, the scale of the site, and the careful consideration of the PLANTING LAYOUT (AGGREGATE DISTRIBUTION DRIFT THEORY,

on-center "grid pattern" layout.







THIS BLOCK IS FOR OFFICIAL USE ONLY QR label certifies that this plan meets conditions of final approval by the Planning Board, its designee M-NCPPC **APPROVAL** PROJECT NAME: THE VILLAGES AT TIMOTHY BRANCH PROJECT NUMBER: SDP-1304 For Conditions of Approval see Site Plan Cover Sheet or Approval Sheet Revision numbers must be included in the Project Number

SDP-1304

TREE CONSERVATION PLAN - TYPE 2 THE VILLAGES AT TIMOTHY BRANCH

BRANDYWINE DISTRICT No. II PRINCE GEORGE'S COUNTY, MARYLAND

TIMOTHY BRANDYWINE INVESTMENTS ONE, LLC APPLICANT: TIMOTHY BRANDYWINE INVESTMENTS TWO, LLC 2124 Priest Bridge Drive, Suite 18

MC NAMEE HOSEA COUNSEL: 6411 Ivy Lane, Suite 200

Greenbelt, Maryland 20770 BEN DYER ASSOCIATES, INC. 11721 Woodmore Road, Suite 200 ENGINEER/ Mitchellville, Maryland 20721 PLANNER:

Crofton, Maryland 21114

SHEET 15 OF 15 WSSC 200' SHEET SERIES 218 \$ 219 SE 08 WSSC 200' SHEET SERIES 218, 219 \$ 220 SE CT ADC MAP BK LOCATION 5883 AB\$C-9\$10, 5999 A\$B-1\$2 11721 WOODMORE ROAD, SUITE 200 MITCHELLVILLE, MARYLAND 20721 7/07/15 | Revised worksheet and Ph. 1 & 2 areas. BEN DYER ASSOCIATES, INC. Engineers / Surveyors / Planners 4/03/15 | Revised per comments dated 4/1/15 9/16/14 Revised per referral comments COPYRIGHT @ 2014 BEN DYER ASSOCIATES, 7/15/14 Revised per reviewer comments dated 6/12/14. J-B02060 Mike Petrakis DATE DESCRIPTION Qualified Professional DATE FEBRUARY 2014 54.075-2 COMAR 08.19.06.01 REVISIONS J:\LD7-PROJ\B02060-LD7\SHEETS\TIMOTHY\TCP2-2-15.dwg, 8/12/2015 5:29:19 PM, nicpag