

# GENERAL NOTES

This plon is submitted to fulfill the woodland conservation requirements for

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 \$9.00 per square foot mitigation fee. A pre-construction meeting is required prior to the issuance of grading permits. The Department of Permits, Inspection and Enforcement, shall be
- contracted prior to the start of any work on the site to conduct a pre-construction meeting where implementation of woodlond conservation measures shown on this plon will be discussed in detail. The developer or builder of the lots or parcels shown on this plon shall
- provision of a copy of this plan at time of contract signing. Future property owners ore also subject to this requirement. The owners of the property subject to this tree conservation plan are

notify future buyers of any woodland conservation areas through the

solely responsible for conformance to the requirements contained herein. The property is within Environmental Strategy Area, ESA-2 of

Plan Prince George's 2035 formerly the Developing Tier and is zoned

- R-R (Rural Residential. The site is not adjacent to a roadway designated os scenic, historic, o
- parkway or a scenic bywoy.
- classified os a Freeway roadway. 9. This plon is grandfathered under CB-27-2010, Section 25-177(q).

The property is odjocent to Capitol Beltway Interstate 495 which is

## **MOODLAND PRESERVATION AND RETENTION NOTES**

- O. All woodlands designated on this plon for preservation ore the responsibility of the property owner. The woodland areas shall remain in o natural state. This includes the canopy trees and understory vegetation. A revised tree conservation plan is required prior to clearing woodland areas that ore 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 plon.
- . The location of all temporary tree protection fencing (TPFs) shown on this plan shall be flogged or stoked 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 plon 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 o violation of this TCP2.

Woodland preservation areas shall be posted with signage as shown on

- the plans at the some time os 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 plon to remain undisturbed. Only trees or port thereof designated by the county as dead, dying, or hazardous may be removed. 5. A tree is considered hazardous if o condition is present which leads o

Certified Arborist or Licensed Tree Expert to believe that the tree or o

- portion of the tree hos a potential to foll and strike o 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 ore present, or trees ore present that ore not hazardous but ore leaning into the disturbed area, the permitee shall remove said trees using o chain
- sow. Corrective measures requiring the removal of the hazardous tree or portions thereof shall require authorization by the county inspector. Only ofter approval by the inspector may the tree be cut by chain sow to near the existing ground level. The stump shall not be removed or covered with soil, mulch or other materials that would inhibit sprouting. 8. If o 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 o Licensed Tree Expert must certify that the tree or the portion of the tree in auestion 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 ore in imminent danger of striking a structure, porking 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 token. The photos shall be submitted to the inspector for documentation
- If corrective pruning may alleviate a hazardous condition, the Certified Arborist or a Licensed Tree Expert may proceed without further outharization. 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 token. The photos shall be submitted to the inspector for documentation of the damage.
- Debris from the tree removol 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 encouroging 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 o permit from the Maryland Deportment of Noturol 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. 9. Tree protection fencing (TPFs) is not required for all or portions of this plon because on undisturbed 100-foot buffer of open land/or o 50-foot
- forested buffer is being maintained between the limit of disturbance (LOD) 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 o revision to the tree conservation plon is necessary or if installation TPFs will be required.

# AFFORESTATION AND REFORESTATION NOTES.

- All offorestation/reforestation bonding, based on square footage, shall be pasted with the county prior to the issuance of any permits. These bonds will be retained as surety until oll required octivities have been satisfied or the required timefrome for maintenance hos passed, whichever is longer.
- The planting of afforestation or reforestation areas sholl be completed prior to the issuance of the first building permit. (This standard note may be modified as necessary to address which building permits ore adjacent to the proposed planting areas.) Seedling planting is to occur from November through Moy 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 o detailed maintenance schedule is provided.
- If planting cannot occur due to planting conditions, the developer or property owner shall install the fencing and signoge in occordance with the approved Type 2 Tree Conservation Pion. Planting shall then be accomplished during the next planting season. If planting is delayed beyond the transfer of the property title to the homeowner, the developer or builder shall obtoin o 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 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 groding 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 groding of the site. Failure to install and maintain temporary or permanent tree protective fencing is o violotion of this TCP2.
- Afforestation/reforestation areas shall be posted with notification signoge, as shown on the plans, at the some time as the permanent protection fencing instollation. 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 fallowing information shall be submitted to the M-NCPPC Plonning Deportment regording the controctor responsible for implementation of this plon; contractor name; business name (if different); address; Results of annual survival checks for each of the required four years ofter tree
- Failure to establish the offoresotion or reforestation within the prescribed time frame will resulting the forfeiture of the reforestation bond and/or a violation of his plon including the associated \$9.00 per square foot penalty unless the county: inspector approves a written extension.

planting shall be reported to the M-NCPPC, Planning Deportment.

# PLANTING SPECIFICATION NOTES

- Quantity: (See Plant Schedule)
- Type: (See Plont 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 port 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 ouxiliary/fibrous roots) shall be present.
- Plants that do not have on abundance of well developed terminal buds on the leaders and branches shall be rejected.
- Plants shall be shipped by the nursery immediately ofter 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 ofter delivery to the reforestation site, they shall be stored in the shade with their root mosses protected from direct exposure to sun and wind by the use of straw, peat moss, compost, or other suitable moterial and shall be maintained through periodic watering, until the time of planting.
- Planting Handling: The quantity of seedlings token 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 Plonting: The best time to plant seedlings is while they ore dormant, prior to spring budding. The most suitable months for planting ore March and April, when the soil is moist, but may be planted from Morch 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 reoching the final grades and stabilization of planting oreos.
- 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, bolled up or bent. Moist soil should then be pocked firmly around the roots. Seedlings should be planted at a depth where their roots lie just below ground surface. Air pockets should not be left ofter 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 plon must be contracted 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 o description of the general planting theory.
- Soil: Upon the completion of all grading operations, o soil test shall be conducted to determine what soil preparation and soil amendments, if any, ore necessary to create good tree growing conditions. Soil samples shall be token at a rote that provides one soil sample for each area that appears to hove o 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, phosphorus, potassium, calcium and organic matter.
- Soil Improvement Measures: The soil shall then be improved according to the recommendations mode by the testing company.
- Fencing and Signoge: 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 plonting operation unless it was installed during the initial stages of development. Signs shall be posted per the signoge detail on this sheet.
- 11. Planting method: Consult the Planting Detoil(s) shown on this plon.
- 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 oreo 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 orea.
- 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 hos not been provided the area must be supplemented with additional seedlings to reach the required number at time
- 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: Yeor 1: Site Preporotion and Tree Planting
- Survival check once annually (September-November) see Note 1) Watering is needed (2 x month) Control of undesirable vegetation os needed (1 x in June and 1 x in September min.)
- Year 2-3: Reinforcement planting is needed (See Note 2) Survival check once annually (September-November) Control of undesirable vegetation if needed (1 x in Moy 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 os-built) by walking the site and toking inventory. Plants must show vitality. Submit field data forms (Condition Check Sheets) to owner ofter each inspection. Remove all deod 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 on alternative plant type.

3. Miscellaneous: Fertilization or watering during years 1 through 3 will be

recommendations will be conducted on an os needed basis. Prior to the issuance of the first permit for the development shown on this TCP2, oll off site woodland conservation required by this plan shall be identified on an approved TCP2 plan and recorded as on off-site easement in the land records of Prince George's County. Proof of recordation of the off-site conservation shall be provided to the M-NCPPC, Planning Deportment prior to issuance of any permit for the associated plon.

done on on as needed basis. Special return operations or

# POST DEVELOPMENT NOTES

2" SAUCER WITH SHREDDED

HARDWOOD MULCH

When woodlands and/or specimen, historic or champion trees ore to remain:

Minimum Monitoring

Fertilizer 'if needed)

Woter++

Recommended Optimal time

Recommended with Additional Care

Dependent Upon Site Conditions

If the developer or builder no longer hos on interest in the property and the new owner desires to remove o 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 hos been completed per the handout "Guidonce for Prince George's County Property Owners, Preservation of Woodland Conservation Areas", the orborist 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 permitted.

Months

Dependent Upon Site Conditions: Weekly Watering is Strongly Recommended From May Through October Unless Weekly Roinfoll Equals 1"

NOTES:
1. Activities during November through February depend on ground conditions.

The planting and core of trees most successful when coordinated with the local conditions.

This calendar summorizes some of the recommended time frames for bosic reforestation

TREE PLANTING and MAINTENANCE CALENDAR

- If a tree or portions thereof ore 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 toke corrective action immediately. The condition of the area shall be fully documented through photographs prior ta corrective action being token. 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 o TCP2. The work is required to be conducted by o Licensed Tree Expert.
- The removal of noxious, invosive, and non-notive plant species from any woodland preservotian area shall be done with the use of hand-held equipment only (pruners or o chain sow). These plants may be cut neor the ground and material less than two inches diometer may be removed from the area and disposed of appropriately. All materiol 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
- The use of broodcost 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 on application of the chemical directly to the cut stump immediately following cutting of plant tops. The use of any herbicide sholl be done in accordance with the label instructions.
- The use of chainsaws is extremely dangerous and should not be conducted with poorly mointoined equipment, without safety equipment, or by individuals not trained in the use of this equipment for the pruning and/or cutting of trees.

PRUNE ALL DAMAGED OR DEAD

(SEE SPECIFICATIONS)

# 6. INSERT DIBBLE 2 INCHES FROM SEEDLING

<u>Signage</u>

Conservation Area

REFORESTATION

PROJECT

SPECIMEN

TREE

DO NOT REMOVE

MACHINERY, DUMPING

PROHIBITED

VIOLATORS ARE SUBJECT TO FINES AS IMPOSED BY THE MARYLAND FOREST CONSERVATION ACT OF

may warront plocing signs closer or forther apart.

3. Attochment of signs to trees is prohibited.

Bottom of signs to be higher than top of tree protection fence.

2. Signs to be placed approximately 50' feet opart. Conditions on site offecting visibility

PLAN SYMBOL =

PLAN SYMBOL = (S)

PLAN SYMBOL =

(REFORESTATION)

(SPECIMEN TREE)

FOREST

AREA

MACHINERY, DUMPING

OR STORAGE OF

ANY MATERIALS IS

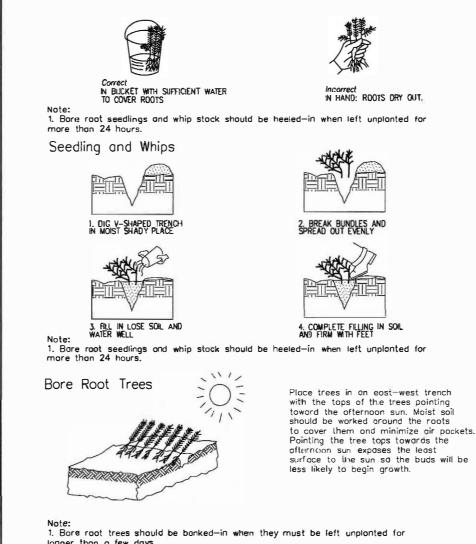
PROHIBITED

VIOLATORS ARE SUBJECT T FINES AS IMPOSED BY THE

MARYLAND FOREST CONSERVATION ACT OF

RETENTION

(PRESERVATION)



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

Boundaries of protected areas should be stoked and flagged prior to installing device.

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

TREE PROTECTION FENCING - TYPE I

Protected oreos will be set as part of the review process.

5. Device should be properly maintained during construction.

Avoid root domoge when placing anchor posts.

6. Use brightly colored surveyor's flogging every 4'.

9. Forest Conservation Technical Manual Figure D-5.

4. Wire should be securely ottoched to posts.

Protective signage is also recommended.

Handling Seedlings in the Field

2 STRAND GALVANIZED STEE

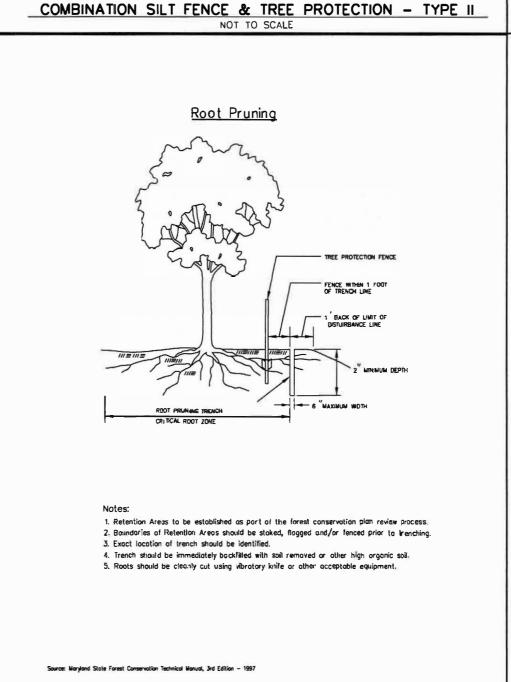
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PLAN SYMBOL

WIRE 12 OR 14 GAUGE

SURVEYOR'S FLAGGING

HANDLING BARE ROOT STOCK



NOTES:

1. Retention Area will be set as part of the review process.
2. Boundaries of Retention Area should be staked and flagged prior to installing device.
3. Avoid root damage when placing anchor posts.
4. Wire should be securely attached to posts.
5. Device should be properly maintained during construction.

36" MINIMUM FENCE \_
POST LENGTH

CONSTRUCTION SPECIFICATIONS

1. Fence posts shall be a minimum of 35" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (min.) cut, or 1 3/4" diameter (minimum) round and shall be at sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.

Geotextile shall be fastened excurely to each fence poet with wire ties or stoples at top and mid-section and shall meet the following requirements for Geotextile Class F:

3. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.

4.5'it Fence shall be inspected ofter each roinfall event and maintained when bulges occur or when sediment occumulation reached 50% of the fabric height.

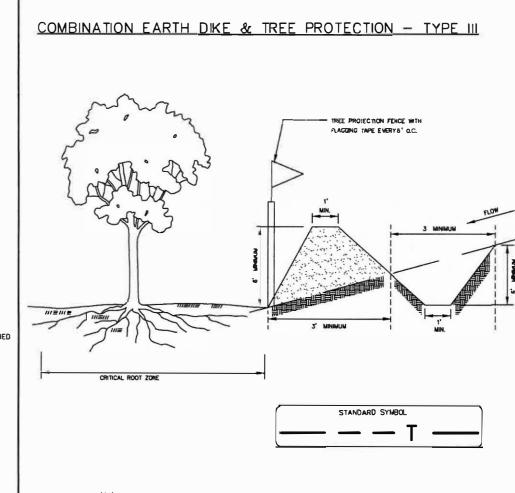
50 lbs/lin (min.) Test: MSMT 509 20 lbs/lin (min.) Test: MSMT 509 0.3 gol it / minute (max.) Test: MSMT 322

Use brightly colored surveyor's flagging every 4 feet.
 Protective signage is also recommended.

SECTION A

Tensile Strength

Filtering Efficiency 75% (mist.)



1. Combination sediment control and farest protection device. 2. Boundaries of the Retention Area will be set as part of the forest conservation plan review process. 3. Boxundaries of Retention Area should be stoked prior to installing protective device. 4. Root dantage should be avoided. 5. The toe of slope should be outside the critical root zone 6. Equipment is prohibited within critical root zone of retention area: piace dike accordingly. 7. All standard maintenance for earthers dikes and swales apply to these details.

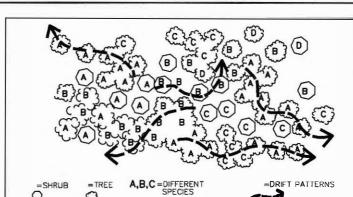
8. All standard reclamation practices for earthen dikes and swales shall apply to these details.

Source: Prince George's County, Maryland: Woodland Conservation Manual

FENCE POST SECTION
MINIMUM 20" ABOYE
GROUND

STANDARD SYMBOL

-x-----x-



Aggregate Drift or Sweep. A cluster type grouping which topers or feathers out along the edges. Aggregate mossing or drifts are one of the most comman vegetation distribution patterns occurring in nature. Principle seed beorers are at the central care of the cluster with seed dispersol autwords, often windblown, with densities thinning out olong the fringes or extremities (groupings blend through ond to other groupings). Imagine the follout of windblown

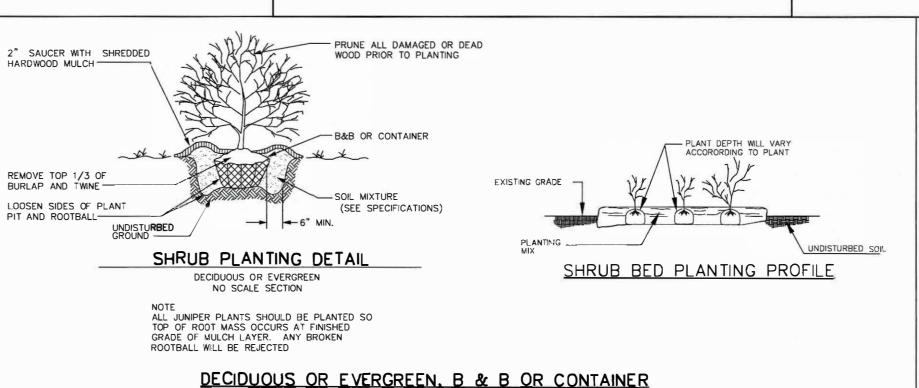
seeds. They often oppeor as aggregate drifts, elongated and tear drop in shape. Application: When developing a planting plan the Maryland Forest Conservation Manual (pages 98 thru 101) offers on reforestation methods, species selection, plant materials ond site stocking options. This is meant for determining the appropriate number of plants required, not necessarily a feeton-center "grid pattern" loyout. Many of the State's regulatory reforestation sites installed since the inception of the Act oppeor as orchards. This unnatural grid potterns can be corrected thru the application of aggregate distribution. This does not mean that plants must be in o grid pottern, the drifts of shrubs connot blend into groupings of trees or that groupings of some species cannot occur together. It simply means that the installer should the oforementioned forest conservation act criterio at the some time replicating natures aggregate drift patterns (see

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 properties of the installer. (AGGREGATE DISTRIBUTION DRIFT THEORY)

### PLANT SCHEDULE FOR RE/AFFORESTATION STOCK SPECIFICATION: 1000 SEEDLINGS PER ACRE TOTAL RE/AFFORESTATION PROVIDED: 4.46 ACRES

	/						
eforestation Area	Acreage	Seedling Selection					
		Tulip Poplar	Sweet Gum	Red Maple	Red Oak	White Oak	Total No. of Seedlings
1	1.43	286	286	286	286	286	1,430
2	0.42	84	84	84	84	84	420
3	0.93	186	186	186	186	186	930
4	0.12	24	24	24	24	24	120
5	0.05	10	10	10	10	10	50
6	0.04	8	8	8	8	8	40
7	0.09	18	18	18	18	18	130
8	0.43	86	86	86	86	86	430
9	0.51	102	102	102	102	102	510
10	0.44	88	88	88	88	88	440
TOTAL	4.46	892	892	892	892	892	4,460

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

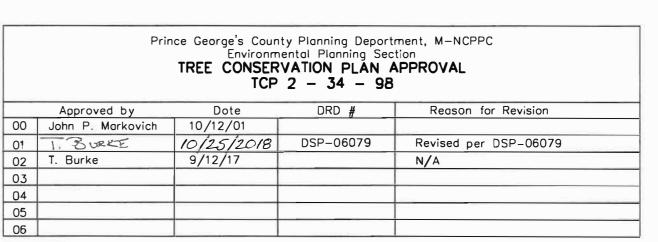


SHRUB PLANTING DETAIL AND PROFILE

Reforestation signs to be attached to wood posts . Top of sign to be flush with top of wood post. 3. Signs to be attached using 2 golvonized wood screws each with a galvanized washer.

SPLIT RAIL FENCE DETAIL

### FOR OFFICIAL USE ONLY QR label certifies that this plan meets conditions of final approval by the Planning Board, its designed or the District Council. M-NCPPC **APPROVAL** PROJECT NAME: D'ARCY PARK SOUTH PROJECT NUMBER: For Conditions of Approval see Site Plan Cover Sheet or Approval Sheet



DETAILS AND SPECIFICATIONS TREE CONSERVATION PLAN - TYPE II D'ARCY PARK SOUTH LANDS OF GKG PARTNERSHIP

MELWOOD DISTRICT No. 15 PRINCE GEORGE'S COUNTY, MARYLAND

WSSC 200' SHEET SERIES 203 SE 08 & 204 SE 08 Oct. 24, 2018

OWNER / DEVELOPER

MILLERSVILLE MD 21108

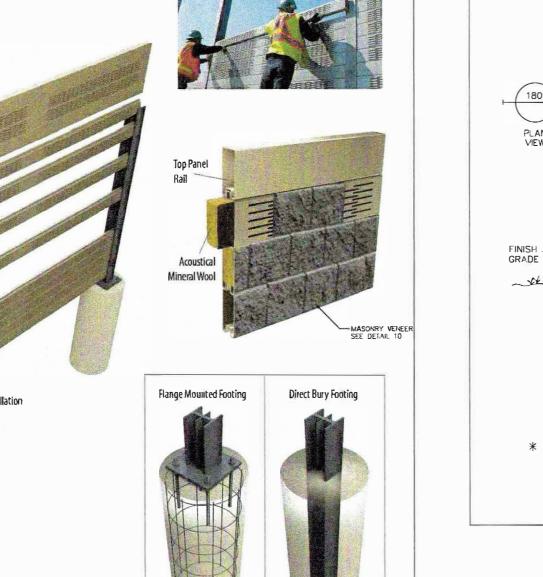
PHONE: (410)571-6737

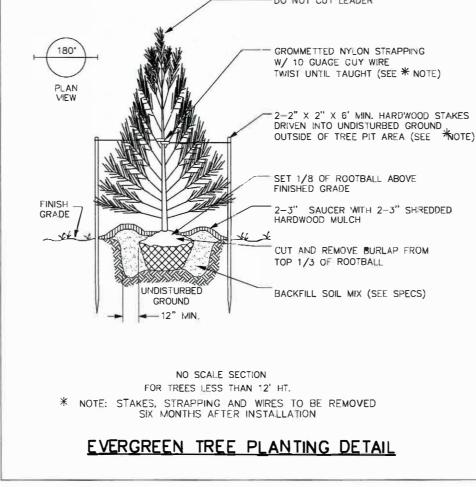
ATTN: MR. MICHAEL JONES

ARUNDEL LAND GROUP, LLC 731 GENERALS HIGHWAY

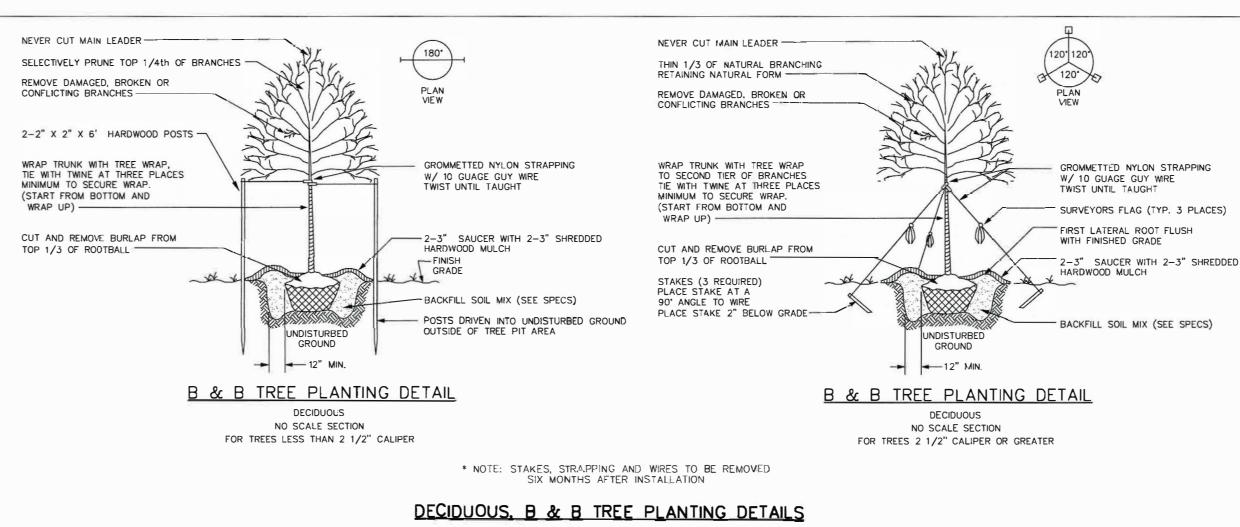
SHEET 7 OF 7 ADC MAP BK LOCATION 19 H-8 11721 WOODMORE ROAD, SUITE 20 MITCHELLVILLE, MARYLAND 20721 BEN DYER ASSOCIATES, I MR COPYRIGHT @ 2006 BEN DYER ASSOCIATES, INC 1/8/07 Revised per MNCPPC Staff Report for DSP-06079 8/1/07 Revised per PGCPB No. 06-220 Resolution Mike Petrakis BY SCALE NTS DATE DESCRIPTION Qualified Professional DATE November, 2006 COMAR 08.19.06.01 54.020-Z REVISIONS L:\C3D-FROJ\A97155-C3D\Env\Working CAD\TCPs-DET-2006.dwg, 10/19/2018 2:44:53 PM, niepag







CONTAINER TREE PLANTING DETAIL



SOUND WALL DETAIL
SOUND WALL BY AIL SOUND WALLS OR APPROVED EQUAL