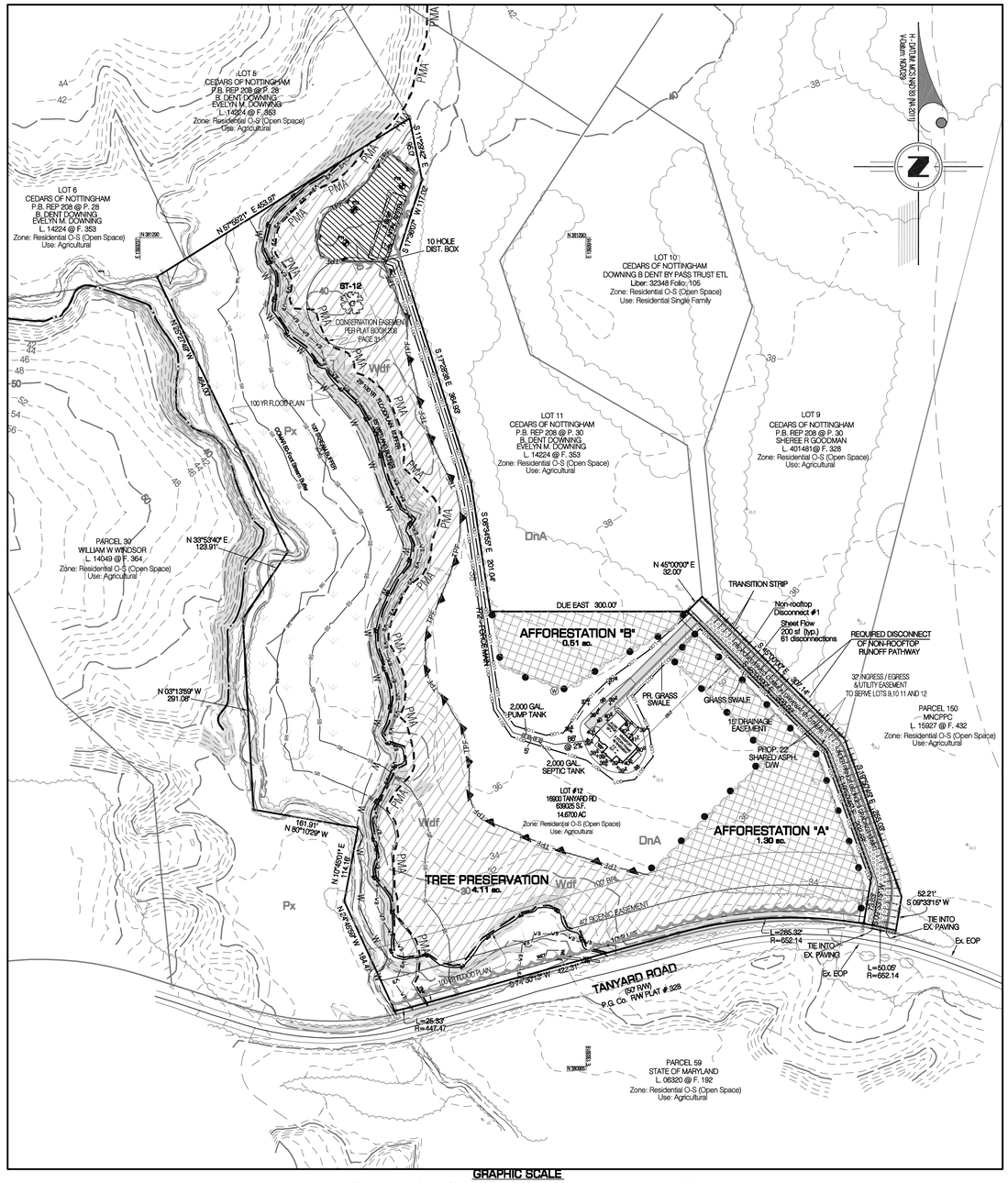


SOIL TYPES:

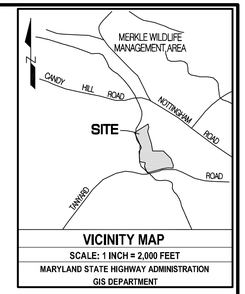
Map Unit	Description	Kast Factor	Hydric	Hydrologic group	Drainage Class
DnA	Donlonton fine sandy loam, 0% to 2% slopes	0.06-0.20 in/hr	No	C	Moderately well drained
Px	Potobac -Issue complex, frequently flooded	0.57-2.00 in/hr	Yes/No	B/D	Poorly drained
WdF	Westphalia and Dodon soils, 25% to 40% slopes	0.20-5.95 in/hr	No	A/C	Well to Moderately well drained

General Information Table		
Layer Category	Layer Name	Value
Zone	Zoning (Zone)	O-S
Zone	Aviation Policy Area (APA)	None
Administrative	Tax Grid (TMG)	148 E1
Administrative	WSSC Grid (Sheet 20)	217SE14
Administrative	Planning Area (Plan Area)	6-82B
Administrative	Election District (ED)	4th
Administrative	Councilmanic District (CD)	9
Administrative	General Plan 2002 Tier (Tier)	Rural
Administrative	Traffic Analysis Zone (COG) (TAZ-COG)	1307
Administrative	PG Traffic Analysis Zone (TAZ-PG)	2721

SPECIMEN TREE TABLE

I.D. #	SPECIES	DBH (in)	CONDITION	HOW LOCATED	DISPOSITION
12	NORTHERN RED OAK	50"	POOR	FIELD	SAVE

Good Condition: No trunk rot and no major limb death and no fused multiple trunk.
Poor Condition: Trunk rot or major limb death or fused multiple trunk.



VICINITY MAP
SCALE: 1 INCH = 2,000 FEET
MARYLAND STATE HIGHWAY ADMINISTRATION
GIS DEPARTMENT

SITE ANALYSIS

1. Zoning: Residential O-S (Open Space)
   Property Street Address: 16900 Tanyard Road, Upper Marlboro, MD 20772
   Tax Account No. 04-3703394
2. Minimum Building Restriction Lines: Front B.R.L.: 100' at a minimum 300' lot width
3. Tax Map 148, Grid E1
4. Proposed Use: Single-family dwelling
5. Record References: Plat Book REP 208 @ Plat No. 31; Liber 14224 @ Folio 353
6. Total Lot Area: 639,025.2 s.f. or 14.67 Ac.
7. Site topography from aerial photogrametry by Virginia Resource Mapping, Leesburg, VA, flown March 10, 2003.
8. This site is not within an Aviation Policy Area.
9. This site is not located within the Chesapeake Bay Critical Area.
10. OWNER: Basil Opurum, 9630 Milestone Way #2122, College Park, MD, 20740

Note: This site is not adjacent to or in the vicinity of any roadways designated or Master planned as arterial per Part B, Section 4.11 Environmental Technical Manual.

LEGEND

- Specimen Tree
- Critical Root Zone
- 100' Stream Buffer (SB)
- Limits of Wetlands (W)
- 25' Wetland Buffer (WB)
- Primary Management Area (PMA)
- 100 Flood Plain
- Tree Preservation
- Afforestation
- Wetland
- Tree Protection Fence (PPF)
- 15% TO 25% Slopes In Highly Erosive Soils
- Septic Recovery Area
- Existing 2' Contour
- Existing 10' Contour
- Prop. Treeline
- Existing Treeline
- Public Utility Easement
- Limit Of Disturbance (LOD)
- Tree Protection Device (TPF)
- Woodland Preservation Sign
- Reforestation/Afforestation Sign

LOT-BY-LOT WOODLAND CONSERVATION SUMMARY TABLE												
LOT	GROSS TRACT AREA	100 YEAR FLOODPLAIN (FP)	NET TRACT AREA (NTA)	EX. WOODLAND (NTA)	EX. WOODLAND (FP)	WOODLAND CLEARED NET TRACT (C-NTA)	WOODLAND CLEARED FLOODPLAIN (C-FP)	WOODLAND CLEARED OFF-SITE (C-OS)	WOODLAND PRESERVATION AREA (WPA)	WOODLAND NATURAL REGENERATION AREA (WRA)	WOODLAND RETAINED/ NOT CREDITED (WR-NC)	WOODLAND RETAINED/ ASSUMED CLEARED (WR-AC)
12	14.67	4.39	10.28	4.61	4.39	0.22	0.00	0.26	4.11	1.81	0.00	0.00
32' Ingress/Egress	0.42	0.00	0.42	0.26	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00

"MISS UTILITY"
FOR LOCATION OF UTILITIES CALL
1-800-257-7777 48 HOURS IN ADVANCE
OF ANY WORK IN THIS VICINITY.

WARNING: UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY AND WERE TAKEN FROM AVAILABLE SURFACE OBSERVATION, CONSTRUCTION DRAWINGS AND RECORDS. FOR MORE PRECISE LOCATION OF UNDERGROUND UTILITIES CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS IN ADVANCE OF ANY WORK OR PRECISE DESIGN NEED IN THIS VICINITY. ADDITIONAL UTILITIES THAN THOSE SHOWN HEREON MAY EXIST.

OWNER/APPLICANT:
Basil Opurum
9630 Milestone Way #2122
College Park, MD, 20740
Phone: (301) 312-1523

PROPERTY OWNERS AWARENESS CERTIFICATE

I/we, Basil Opurum, hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2

(owner) 4/16/21
Owner or owners representative Date

QUALIFIED PROFESSIONAL CERTIFICATION

This plan complies with the current requirements of Subtitle 25 and the Woodland and Wildlife Conservation Technical Manual

10/17/2023
Date

Eric John Sturm, RLA
Registered Landscape Architect #755
Expiration Date 12/31/2021

Site Design
9500 Medical Center Drive, Suite 480
Largo, Maryland 20774
(301) 952-8200
esturm@engsite.tech
County@engsite.tech

STATE OF MARYLAND · ERIC JOHN STURM · 755 · REGISTERED LANDSCAPE ARCHITECT

TYPE 2 TREE CONSERVATION (TCP2) PLAN
APPROVAL BLOCK

Prince George's County Planning Section, M-NCPPC
Environmental Planning Section
TYPE 2 TREE CONSERVATION PLAN APPROVAL
TCP2 - 020 - 2021

	Approved by	Date	DRD#	Reason for Revision
00	Suzanne A Nickle	11-17-2021	N/A	N/A
01	Christian Meeks	12/4/2023		Subetitute 1 ac. Off-site Mitigation
02				
03				
04				
05				

TCP2 - 020 - 2021

Site Design Inc
LAND PLANNING ● LAND SURVEYING ● ENGINEERING
5407 WATER ST., UNIT 206 - UPPER MARLBORO, MARYLAND 20772
PRINCE FREDERICK
UPPER MARLBORO
(301) 627-2100
(301) 952-8200
(410) 535-9500
(410) 535-8600

REVISIONS
Revised per comments dated 10/3/2023 JBB
Revised per comments dated 11/30/2023 JBB

JOB NO. W-627-C
SCALE: 1" = 100'
DRAWN BY: JBB
CHECKED BY: EJS
DATE: August, 2023

TYPE 2 TREE CONSERVATION PLAN
LOT 12 & 32' INGRESS EGRESS
CEDARS OF NOTTINGHAM
NOTTINGHAM (4th) ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MARYLAND

SHEET 1 of 3

M:\W627\Dwg\Dwg05.dwg

GENERAL NOTES

1. This plan is submitted to fulfill the woodland conservation requirements for grading and building permits. If the grading and building permits expire, then this TCP2 also expires and is no longer valid.
2. Cutting or clearing of woodland not in conformance with this plan or without the express written consent of the Planning Director or designee shall be subject to a $9.00 per square foot mitigation fee.
3. A pre-construction meeting is required prior to the issuance of grading permits. The Department of Public Works and Transportation or the Department of Environmental Resources, as appropriate, shall be contacted prior to the start of any work on the site to conduct a pre-construction meeting where implementation of woodland conservation measures shown on this plan will be discussed in detail.
4. 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 this requirement.
5. The owners of the property subject to this tree conservation plan are solely responsible for conformance to the requirements contained herein.
6. The property is within the Environmental Strategy Area 3 of the Plan Prince George's 2035 (formally the Rural Tier) and is zoned O-S.
7. The property is adjacent to Croom Road which is a designated scenic and historic roadway.
8. The site is not adjacent to a roadway classified as arterial or greater.
9. This plan is grandfathered under CB-27-2010, Section 25-119 (g).

TREE PRESERVATION AND RETENTION NOTES

1. All 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 TCP2.
2. Tree and woodland conservation methods such as root pruning shall be conducted as noted on this plan.
3. 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.
4. All temporary tree protection fencing required by this plan shall be installed prior to 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 a violation of this TCP2.
5. 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

6. 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 county as dead, dying, or hazardous may be removed.
7. 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 damage.
8. 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 permittee 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 chainsaw to near the existing ground level. The stump shall not be removed or covered with soil, mulch or other materials that would inhibit sprouting.
9. 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 permittee, 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.
10. 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 A300 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 contact with the ground, thus encouraging decomposition. The smaller materials shall be placed into brush piles that will serve as wildlife habitat.
11. 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.

    [If development is proposed to be completed in phases:]
12. 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.

    [If existing trees are proposed for use as protection for preservation areas:]
13. 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) 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 of TPFs will be required.

    [If debris piles are noted on the FSD and located in preservation areas:]
14. Debris piles shown in woodland preservation areas shall be removed by hand without the use of mechanical equipment within the preservation area. Chains may be used to pull debris out of the preservation areas. Caution must be used not to damage remaining vegetation.

NOTES ON RETAINED TREES AND WOODLAND

1. If the original developer or builder no longer has an interest in the property and the current owner desires to remove a hazardous tree or portion thereof, the 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 proper 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 permitted.

   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 owner 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 approved limits of disturbance on a TCP2. The work is required to be conducted by a Licensed Tree Expert.
2. 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.
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 cutting of plant tops. The use of any herbicide shall be done in accordance with the label instructions.
4. 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.

NOTES ON PROTECTION OF REFORESTATAION AND AFFORESTATION AREAS BY OWNERS

5. Reforestation fencing and signage shall remain in place in accordance with the approved Type 2 Tree Conservation Plan.
6. 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.

AFFORESTATION AND REFORESTATION NOTES

1. 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.
2. 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 area.)
3. Seedling planting is to occur from November through May only. No planting shall be done while ground is frozen. Planting with larger caliper stock or containerized stock may be done at any time, subject to a detailed maintenance schedule being provided.
4. If planting cannot occur due to site or weather conditions, the developer or property owner shall install the fencing and signage in accordance with the approved Type 2 Tree Conservation Plan. 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 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 county inspector.
5. Reforestation areas shall not be mowed. Maintenance may include measures such as watering and mechanical or hand removal of competing vegetation or invasive species controls.
6. All required temporary tree protection fencing shall be installed prior to the clearing and grading 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.
7. 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.
8. The county inspector shall be notified prior to soil preparation or initiation of any tree planting on this site.
9. 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; and phone number. Results of annual survival checks for each of the required four years after tree planting shall be reported to the M-NCPPC, Planning Department.
10. Failure to establish the afforestation or reforestation within the prescribed time frame will result in 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.

Forest Conservation Act Reporting Information (Change Table)				
	Original Approval	Revision Number (-01)	Revision Number (-02)	Change Since Last Approval
Gross Tract (Acres)	14.67	14.67		
Existing Woodland (Acres)	4.61	4.61		
Woodland Cleared (Acres)	0.5	0.22		
Woodland Retained On-Site (Acres)	0	4.11		
Woodland Planted On-Site (Acres)	2.95	1.81		
On-Site Woodland Easement/ Preservation and Planting (Acres)	0	0		
On-Site Wooded Floodplain in Easement (Acres)	0	0		
Bond Amount	$38,550.60	$23,653.08		
Fee-In-Lieu Amount	0	0		
50' Stream Buffers Conserved (Preservation) - Linear Length	231	231		
50' Stream Buffers Conserved (Preservation) - Acreage	0.11	0.11		
50' Stream Buffers Newly Established (Afforestation) - Linear Length	0	0		
50' Stream Buffers Newly Established (Afforestation) - Acreage	0	0		
Off-Site Woodland Conservation Credits Required (Acres)	0	1		
Off-Site Woodland Conservation Credits Provided (Acres)	0	1		

Individual TCP2 with Previously Approved TCP1 or TCP2
Woodland Conservation Worksheet for Prince George's County

SECTION I – Establishing Site Information (Enter acres for each zone)				
1	Zone:	O-S		
2	Gross Tract:	14.67		
3	Floodplain:	4.39		
4	Previously Dedicated Land:	0.00		
5	Net Tract (NTA):	10.28	0.00	0.00
6	Property Description or Subdivision Name:	Cedars Of Nottingham		
7	Current TCP Number:	2-020-2021	Rev #	1
8	Previous TCP Number:	2-020-2021	Rev #	
	Site subject to the 2010 Ordinance (Y or N)	N		
	Is this a priority funding area? (Y or N)	N		

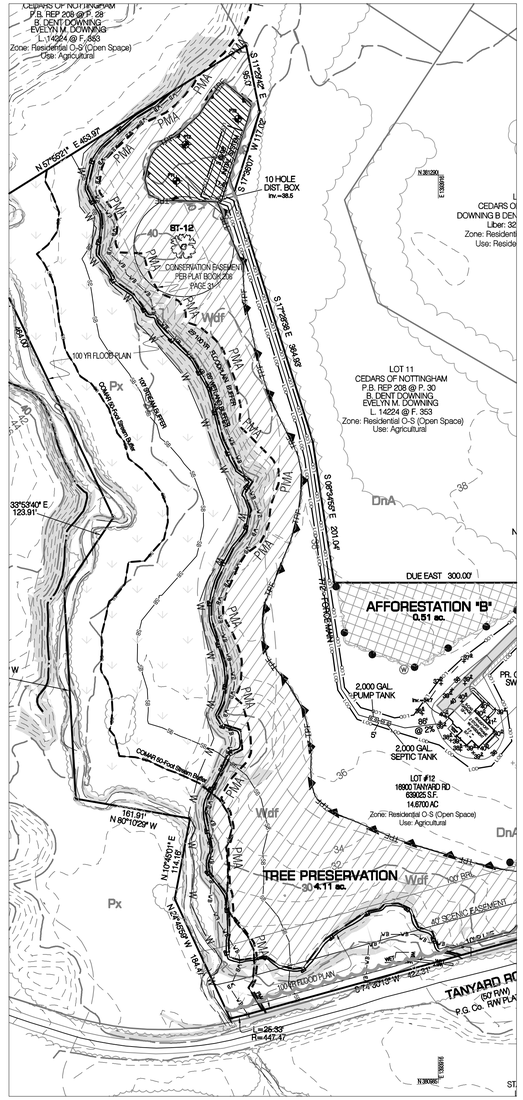
SECTION II - Determining Woodland Conservation Requirements (Enter acres in corresponding column)				
9	Woodland Conservation Calculations:		Net tract	Floodplain
11	Acreage of Existing Woodland		4.61	4.39
12	Woodland Conservation Required for per TCPI or TCP2	67.32%	6.92	
13	Area of Woodland Cleared per previous TCP1 or TCP2		0.50	0.00
14	Area of Woodland Cleared per current TCP2		0.22	0.00
15	Area of Woodland above WCT not cleared by previous TCP1 or TCP2		0.00	
16	Additional Woodland Cleared by current TCP2	0.00		0.00
17	Does the TCPI show 2:1 replacement?	y		
18	Clearing above WCT (1/4:1 Replacement)	0.00	Replacement required =	0.00
19	Clearing below WCT (2:1 Replacement)	0.00	Replacement required =	0.00
20	**Total Woodland Conservation Required :**		**6.92**	

SECTION III-Meeting the Requirement (Enter acres in corresponding column)				
21	Woodland Conservation Provided:		(acres)	
22	Woodland Preservation		4.11	
23	Reforestation / Afforestation		1.81	Bond amount: $ 23,653.08
24	Natural Regeneration		0.00	
25	Landscape Credits		0.00	
26	Area approved for fee-in-lieu		0.00	Fee amount: $0.00
27	Credits Received for Off-site Mitigation on another property		1.00	
28	Off-site Mitigation provided on this property		0.00	
29	**Total Woodland Conservation Provided**		**6.92**	

29 Area of net tract woodland not cleared 4.39 acres
30 Woodland retained not part of requirements: 0.28 acres

31 Prepared by: _____ Date: _____

32 Qualifications: _____



COMAR 50-Foot Stream Buffer

GRAPHIC SCALE

100 0 50 100 200 400
(IN FEET)
1 inch = 100 ft.

QUALIFIED PROFESSIONAL CERTIFICATION

This plan complies with the current requirements of Subtitle 25 and the Woodland and Wildlife Conservation Technical Manual

Eric John Sturm, RLA
Registered Landscape Architect #755
Expiration Date 12/31/2021

10/17/2023
Date

Site Design
9500 Medical Center Drive, Suite 480
Largo, Maryland 20774
(301) 952-8200
esturm@engsite.tech
County@engsite.tech

STATE OF MARYLAND · ERIC JOHN STURM · 755 · LICENSED LANDSCAPE ARCHITECT

TYPE 2 TREE CONSERVATION (TCP2) PLAN APPROVAL BLOCK

Prince George's County Planning Section, M-NCPPC
Environmental Planning Section
TYPE 2 TREE CONSERVATION PLAN APPROVAL
TCP2 - 020 - 2021

	Approved by	Date	DRD#	Reason for Revision
00	Suzanne A Nickle	11-17-2021	N/A	N/A
01	Christina Hecht	12/4/2023		Substitute 1 ac. Off-site Mitigation
02				
03				
04				
05				

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Site Design Inc
LAND PLANNING ● LAND SURVEYING ● ENGINEERING
5407 WATER ST., UNIT 206 - UPPER MARLBORO, MARYLAND 20772
PRINCE FREDERICK
UPPER MARLBORO
(301) 627-3100
(301) 952-8200
(410) 535-9500
(410) 535-8600

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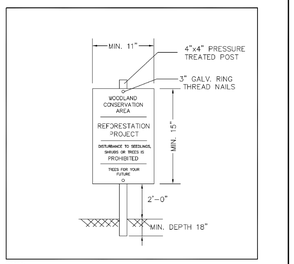
REVISIONS
Revised per comments dated 10/3/2023 JBB
Revised per comments dated 11/30/2023 JBB

JOB NO. W-627-C
SCALE: As Shown
DRAWN BY: JBB
CHECKED BY: EJS
DATE: August, 2023

TCP2 - 020 - 2021

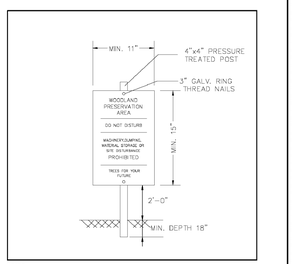
TYPE 2 TREE CONSERVATION PLAN
LOT 12 & 32' INGRESS EGRESS
CEDARS OF NOTTINGHAM
NOTTINGHAM (4th) ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MARYLAND

SHEET 2 of 3



NOTES:
1. ATTACHMENT OF SIGNS TO TREES IS PROHIBITED.
2. SIGNS SHOULD BE PROPERLY MAINTAINED.
3. AVOID INJURY TO ROOTS WHEN PLACING POSTS FOR THE SIGNS.
4. SIGNS SHOULD BE POSTED TO BE VISIBLE TO ALL CONSTRUCTION PERSONNEL FROM ALL DIRECTIONS.
5. SIGNS SHOULD BE INSTALLED AT SAME TIME AS TREE PROTECTION DEVICE.
6. LOCATE SIGNS APPROXIMATELY EVERY 50 FEET ALONG FENCING.
7. SIGNS SHOULD BE IN PLACE IMMEDIATELY FOLLOWING STAKE OUT OF L.O.D., AND REMAIN IN PLACE IN PERPETUITY.

REFORESTATION AREA SIGN



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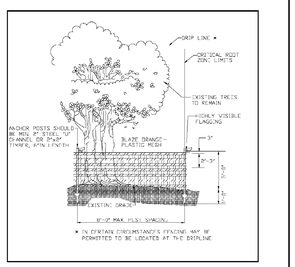
WOODLAND PRESERVATION AREA SIGN



NOTES (MUST BE INCLUDED WITH SITING)
1. FOREST PROTECTION DEVICE ONLY.
2. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
3. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICES.
4. AVOID ROOT DAMAGE WHEN PLACING ANCHOR POSTS.
5. DEVICE SHOULD BE PROPERLY MAINTAINED DURING CONSTRUCTION
6. PROTECTIVE SIGNAGE IS ALSO REQUIRED.

TEMPORARY FENCE PROTECTION DETAIL FOR WOODLAND PRESERVATION AREAS

Size	Number Required per Acre	Approximate Spacing feet on center	Survivability Requirement At the end of the second growing season	
Bare Root Seedlings or Whips	700	8 x 8	75%	525
Container Grown Seedling Tubes (Minimum Cavity Width 1.5")	500	10 x 10	75%	375
Container Grown 1, 2, 3 Gallon	400	12 x 12	75%	300
Container Grown 5, 7 Gallon or 1" Caliper B & B	300	15 x 15	85%	255
Container Grown 15, 25 Gallon or 1.5 - 2" Caliper B & B	150	20 x 20	100%	150

Notes:
1. These stocking and survival requirements are the minimum numbers estimated to meet the definition of forest from bare land.
2. In certain circumstances, any combination of the above mentioned stocking options, dry seeding, tree shelters, transplants, and/or natural regeneration may be appropriate strategies to fulfill the requirements of an approved TCP. They will be evaluated on a case-by-case basis by the approving authority.
3. Spacing does not imply that trees or shrubs must be planted in a grid pattern.

Site Stocking

FOUR YEAR MANAGEMENT PLAN FOR REFORESTATION/AFFORESTATION AREAS

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

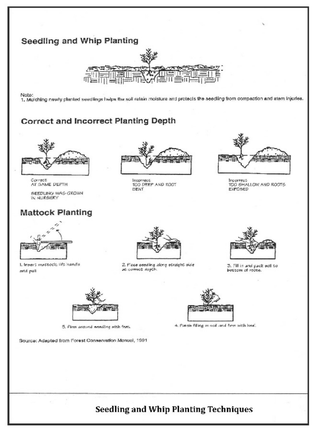
Year 1: Site preparation and Tree Planting
Survival check after first growing season (September-November) (See Note 1)
Watering is needed (2 x month)
Control of undesirable vegetation as needed (minimum of 1 x in June and 1 x in September)

Year 2-3: Reinforcement planting is needed (See Note 2)
Survival check once annually (September-November) **
Control of undesirable vegetation if needed (minimum of 1 x in May and 1 x in August)

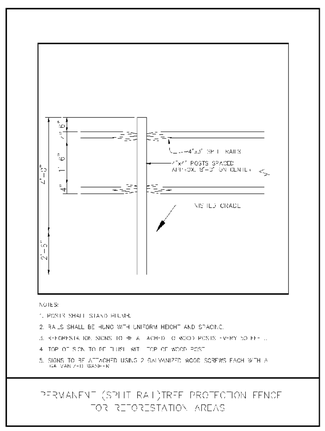
Year 4: (Final) Reinforcement planting if needed. (See Note 2)
Survival check (September –November)

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 dead plants as needed.
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 1 through 3 will be done on an as needed basis. Special return operations or recommendations will be conducted on an as needed basis.

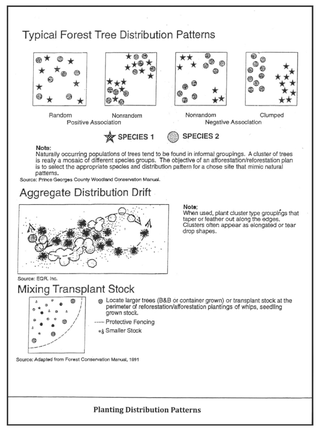
** If at least 75% of the number originally planted has survived the first growing season then the 2nd year survival check may be skipped. In that case a survival check will be required after the 3rd year and again for the 4th and final year.



Seedling and Whip Planting Techniques



PERMANENT (SPLIT RAIL) TREE PROTECTION FENCE FOR REFORESTATION AREAS



Planting Distribution Patterns

AFFORESTATION AREA A — Acreage: 1.30 — Upland Plantin

Species		Large Caliper Planting Stock					Reforestation Credits	Percent of Stocking
Botanical Name	Common Name	Caliper	Height	Credits/Unit	Type	Quantity		
Quercus ruba	White Oak	Seedling		1	Seedling	102	102	11.7%
Acer rubrum	Red Maple	Seedling		1	Seedling	101	101	11.7%
Ilex opaca (M)	American Holly (male)	Seedling		1	Seedling	101	101	10.5%
Ilex opaca (F)	American Holly (female)	Seedling		1	Seedling	101	101	10.5%
Viburnum dentatum	Arrowwod Viburnum	Seedling		1	Seedling	101	101	10.5%
Viburnum acerfolium	Mapleleaf Viburnum	Seedling		1	Seedling	101	101	11.1%
Quercus rubra	Northern Red Oak	Seedling		1	Seedling	101	101	11.0%
Liquidambar styraciflua	Sweetgum	Seedling		1	Seedling	101	101	11.1%
Cercis canadensis	Eastern Redbud	Seedling		1	Seedling	101	101	11.7%
						Reforestation Units Provided	910	
						Total Reforestation Units Required	910	
						Excess	0	

AFFORESTATION AREA B — Acreage: 0.51 — Upland Plantin

Species		Large Caliper Planting Stock					Reforestation Credits	Percent of Stocking
Botanical Name	Common Name	Caliper	Height	Credits/Unit	Type	Quantity		
Quercus ruba	White Oak	Seedling		1	Seedling	40	40	11.2%
Acer rubrum	Red Maple	Seedling		1	Seedling	40	40	11.2%
Ilex opaca (M)	American Holly (male)	Seedling		1	Seedling	40	40	11.2%
Ilex opaca (F)	American Holly (female)	Seedling		1	Seedling	30	30	8.4%
Viburnum dentatum	Arrowwod Viburnum	Seedling		1	Seedling	42	42	11.8%
Viburnum acerfolium	Mapleleaf Viburnum	Seedling		1	Seedling	50	50	14.0%
Quercus rubra	Northern Red Oak	Seedling		1	Seedling	40	40	11.2%
Liquidambar styraciflua	Sweetgum	Seedling		1	Seedling	40	40	11.2%
Cercis canadensis	Eastern Redbud	Seedling		1	Seedling	35	35	9.8%
						Reforestation Units Provided	357	
						Total Reforestation Units Required	357	
						Excess	0	

12. Mulching: Apply two-inch thick layer of woodchip or shredded hardwood mulch (as noted) to each plating 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 rate of 5 lbs/acre.
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 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 to be supplied from a local nursery. Seedlings shall be native species from the same USDA hardiness zone as the proposed planting area.
7. 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 theory.
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, phosphorus, potassium, calcium and organic matter.
9. Soil Improvement Measures: the soil shall then be improved according to the recommendations made by the testing company.
10. 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 operations unless it was installed during the initial stages of development. Signs shall be posted per the signage detail on this sheet.
11. Planting method: Consult the Planting Detail(s) shown on this plan.

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 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. Seedling planting is to occur from November through May only. 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.
6. 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 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.

Planting Specification Notes
1. Quantity: (See Plant Schedule)
2. Type: (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.

"MISS UTILITY"
FOR LOCATION OF UTILITIES CALL
1-800-257-7777 48 HOURS IN ADVANCE
OF ANY WORK IN THIS VICINITY.

WARNING: UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY AND WERE TAKEN FROM AVAILABLE SURFACE OBSERVATION, CONSTRUCTION DRAWINGS AND RECORDS. FOR MORE PRECISE LOCATION OF UNDERGROUND UTILITIES CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS IN ADVANCE OF ANY WORK OR PRECISE DESIGN NEED IN THIS VICINITY. ADDITIONAL UTILITIES THAN THOSE SHOWN HEREON MAY EXIST

STATE OF MARYLAND · ERIC JOHN STURM · LICENSED LANDSCAPE ARCHITECT · 755

QUALIFIED PROFESSIONAL CERTIFICATION

This plan complies with the current requirements of Subtitle 25 and the Woodland and Wildlife Conservation Technical Manual

10/17/2023
Date

Eric John Sturm, RLA
Registered Landscape Architect #755
Expiration Date 12/31/2021

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(301) 952-8200
esturm@engsite.tech
County@engsite.tech

TYPE 2 TREE CONSERVATION (TCP2) PLAN
APPROVAL BLOCK

Prince George's County Planning Section, M-NCPPC
Environmental Planning Section
TYPE 2 TREE CONSERVATION PLAN APPROVAL
TCP2 - 020 - 2021

	Approved by	Date	DRD#	Reason for Revision
00	Suzanne A Nickle	11-17-2021	N/A	N / A
01	Christine Nicole	12/4/2023		Substitute 1 ac. Off-site Mitigation
02				
03				
04				
05				

TCP2 - 020 - 2021

Site Design Inc
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(301) 952-8200
(410) 535-8600

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REVISIONS
Revised per comments dated 10/3/2023 JBB
Revised per comments dated 11/30/2023 JBB

JOB NO. W-627-C
SCALE: As Shown
DRAWN BY: JBB
CHECKED BY: EJS
DATE: August, 2023

TYPE 2 TREE CONSERVATION PLAN
LOT 12 & 32' INGRESS EGRESS
CEDARS OF NOTTINGHAM
NOTTINGHAM (4th) ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MARYLAND

SHEET 3 of 3