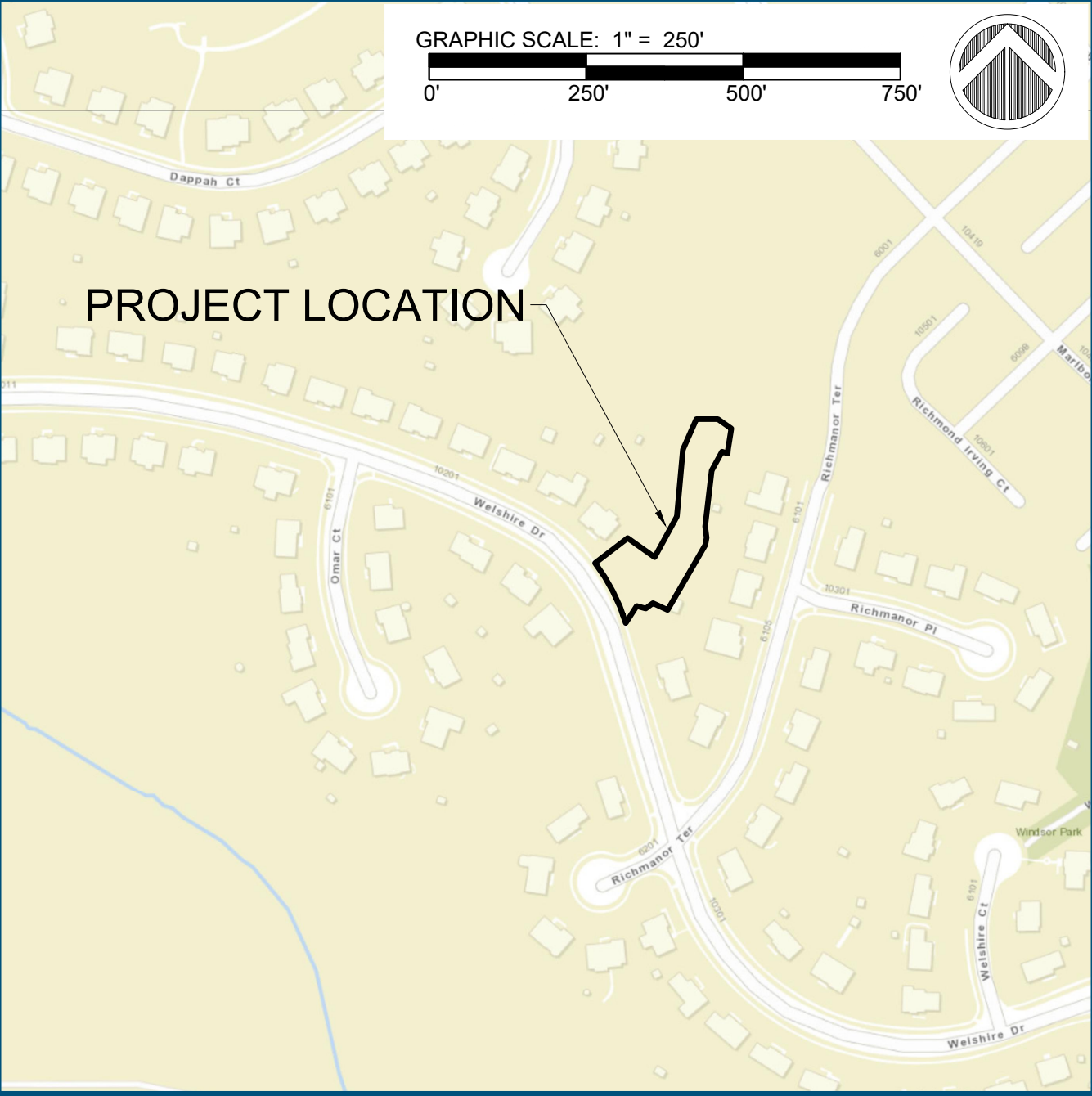


VICINITY MAP



LOCATION MAP



LATITUDE: N 38° 48' 23"
LONGITUDE: W 76° 49' 42.1"

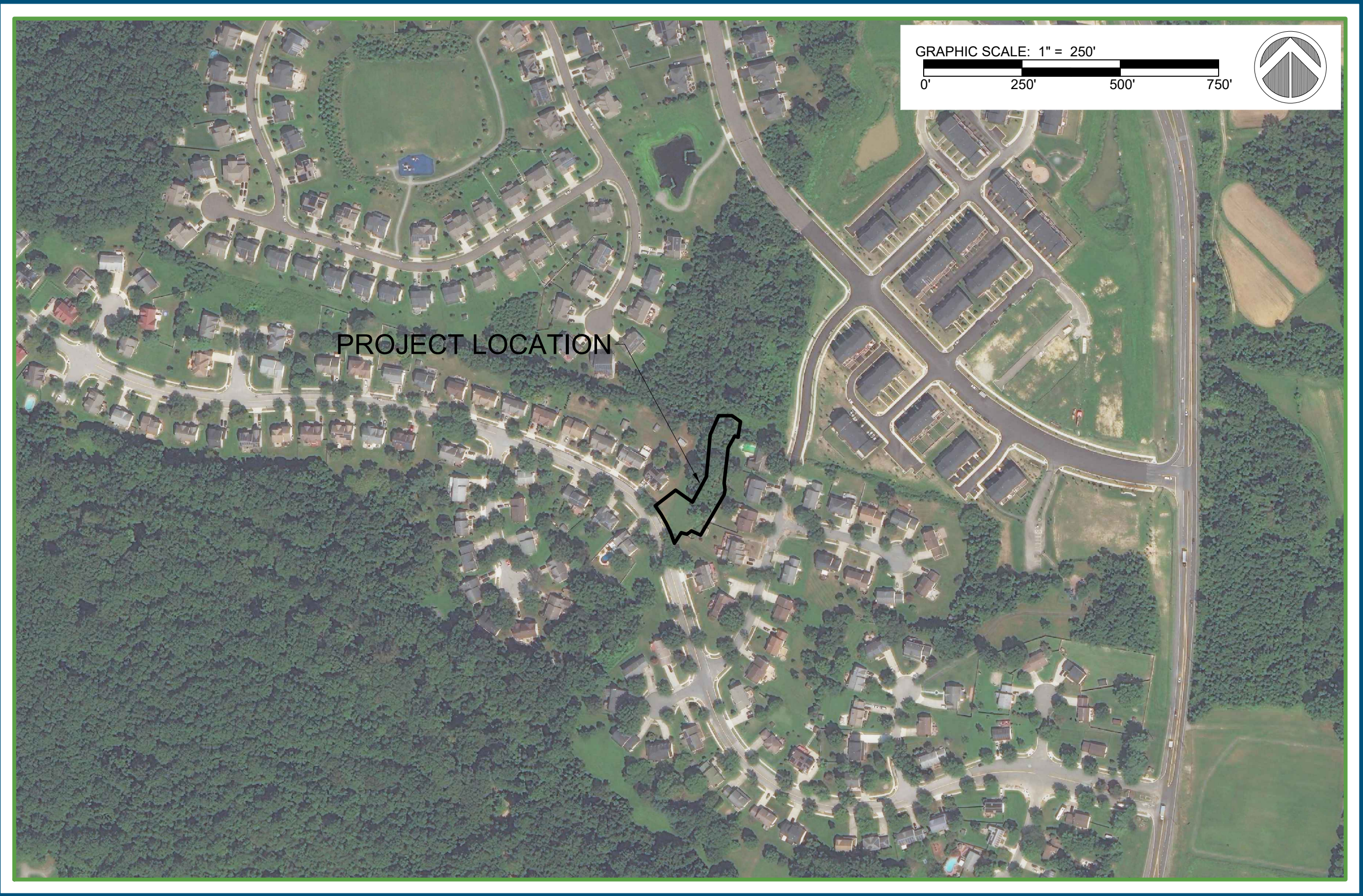
TABLE 1. GENERAL INFORMATION TABLE		
LAYER CATEGORY	LAYER NAME	VALUE
ZONE	ZONING (ZONE)	R-R
ZONE	AVIATION POLICY AREA (APA)	N/A
ADMINISTRATIVE	TAX GRID (TMG)	100-A4
ADMINISTRATIVE	WSSC GRID	208SE09
ADMINISTRATIVE	PLANNING AREA (PLAN AREA)	77
ADMINISTRATIVE	ELECTION DISTRICT (ED)	15, MELWOOD
ADMINISTRATIVE	CONCILMANIC DISTRICT (CD)	9
ADMINISTRATIVE	GENERAL PLAN 2002 TIER (TIER)	DEVELOPING
ADMINISTRATIVE	GENERAL PLAN GROWTH POLICY (2035)	ESTABLISHED COMMUNITIES
ADMINISTRATIVE	POLICE DISTRICT	V

TABLE 2. SITE STATISTICS	
GROSS TRACT AREA	0.56
EXISTING 100-YEAR FLOODPLAIN	0.28
NET TRACT AREA	0.28
EXISTING WOODLAND IN THE FLOODPLAIN	0.13
EXISTING WOODLAND NET TRACT	0.11
EXISTING WOODLAND TOTAL	0.24
EXISTING PMA	2.26
REGULATED STREAMS (LF)**	407.50
RIPARIAN (WOODED) BUFFER UP TO 300 FT WIDE	0.23
**THIS PROJECT INCLUDES A PERMITTED STREAM-LENGTH-LOSS OF 84.5'.	

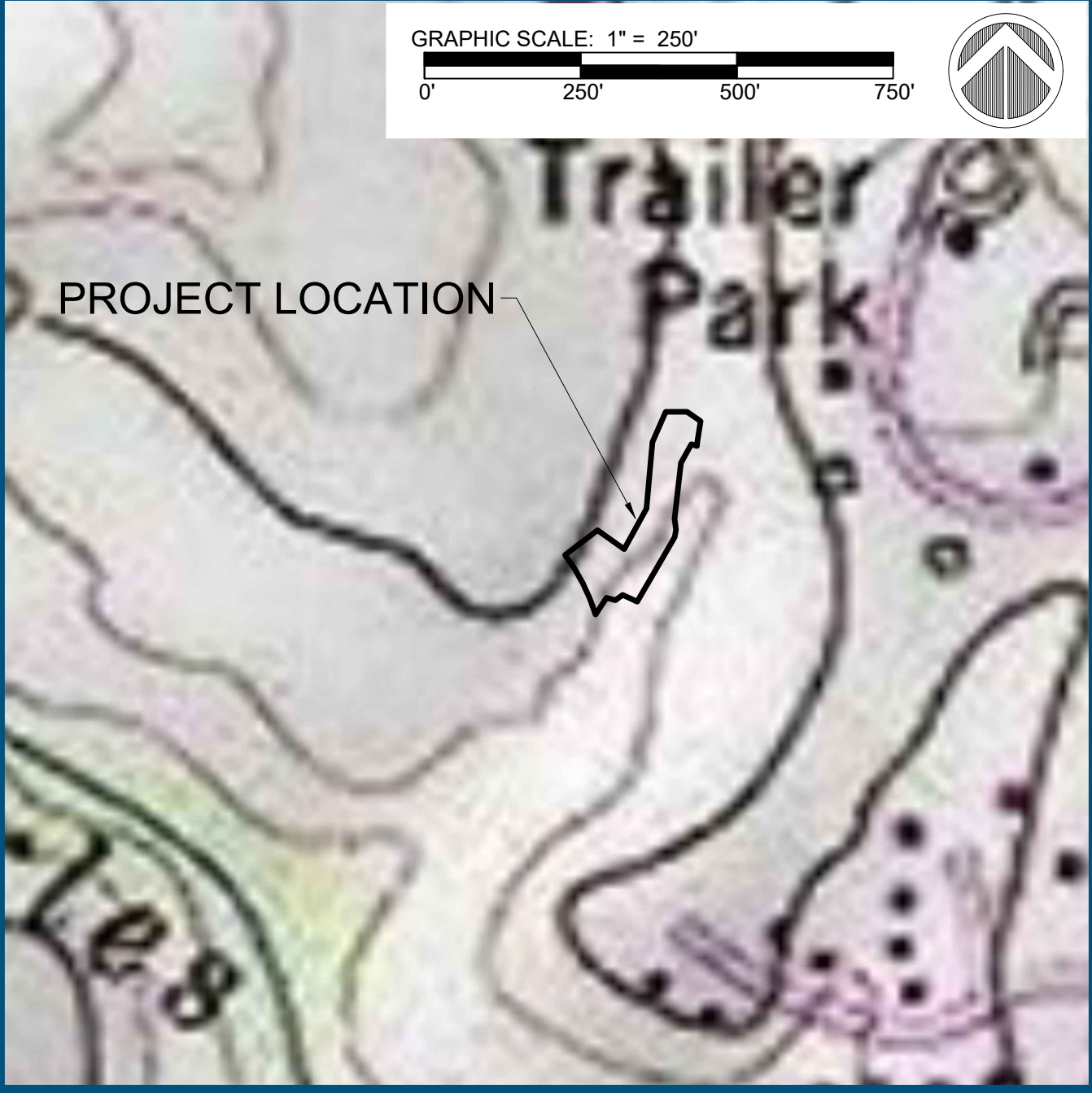
TABLE 3. SPECIMEN TREE INVENTORY							
TREE ID	COMMON NAME	SCIENTIFIC NAME	DBH (IN)	CONDITION RATING	CONDITION COMMENT	DISPOSITION	PRESERVATION COMMENTS
ST-1	RED MAPLE	ACER RUBRUM	40.1	GOOD		SAVE	
ST-2	TULIP POPLAR	LIRIODENDRON TULIPIFERA	41.2	FAIR	ENGLISH IVY, POOR BARK	SAVE	ROOT PRUNE AND FERTILIZER

WINDSOR PARK STREAM RESTORATION
DOE CLEAN WATER PARTNERSHIP (DOE # 26203-2022-0)
TYPE 2 TREE CONSERVATION PLAN
PRINCE GEORGE'S COUNTY, MD

AERIAL PHOTOGRAPH-PROJECT OVERVIEW



FEMA FIRMETTE



REFERENCE FEMA MAP: 24033C0265E

SHEET INDEX	
SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	TCP 2 NOTES
3	TCP 2 DESIGN
4	TCP 2 DETAILS

NOTE: PLEASE SEE THE WINDSOR PARK STREAM RESTORATION PLAN SET (DOE PERMIT #26203-2022-0) FOR TECHNICAL DESIGN. THIS PLAN SET (TCP2-042-2022) IS FOR TREE CONSERVATION ONLY.

M-NCPPC Prince George's Planning Department Environmental Planning Section APPROVAL TREE CONSERVATION PLAN TCP2-042-2022	
Approved by Initial staff signature	Date 6/16/2023
01 revision	
02 revision	
03 revision	

QUALIFIED PROFESSIONAL CERTIFICATION	
This plan complies with the current requirements of Subtitle 25 and the Woodland and Wildlife Conservation Technical Manual.	
Signed: <i>Jauna Collins</i>	Date: 6/16/2023
(Place printed name, address, phone number, and e-mail address of qualified professional below the signature.)	

CLIENT:
NAME: CORVIAS PRINCE GEORGE'S COUNTY
STORMWATER PARTNERS, LLC.
ADDRESS: 1801 MCCORMICK DRIVE
SUITE 280,
LARGO, MD 20774
CONTACT: DEEPAK SHARMA
EMAIL: SHARMAD@BV.COM

PROPERTY INFORMATION:
OWNER NAME: WINDSOR PARK HOA INC.
OWNER ADDRESS: CHARLES P MORRIS JR.
PO BOX 1856
UPPER MARLBORO, MD 20773
PROPERTY ADDRESS: WELSHIRE DRIVE,
UPPER MARLBORO, MD 20772

TAX ID: 1782424
OWNER NAME: BELMONT CREST HOMEOWNERS
ASSOCIATE INC.
OWNER ADDRESS: 16000 TRADE ZONE AVE.,
UPPER MARLBORO, MD 20774
PROPERTY ADDRESS: MARLBORO PIKE,
UPPER MARLBORO, MD 20774
TAX ID: 3710795

APPLICANT
NAME: RES
ADDRESS: 5367 TELEPHONE ROAD,
WARRENTON, VA 20187
CONTACT: JOEY MONHEIT
PHONE NUMBER: 703-393-4844
EMAIL: JMONHEIT@RES.US

Property Owners Awareness Certificate

I/ We *WSPHOA* 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.

James Allen 1/3/2023
Owner or Owners Representative Date
James Allen president
Windsor Park Homeowners Association
P.O. Box 1856
Upper Marlboro MD 20773

Property Owners Awareness Certificate

Daren Hester
Belmont Crest HOA

I/ We *Daren Hester* 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.

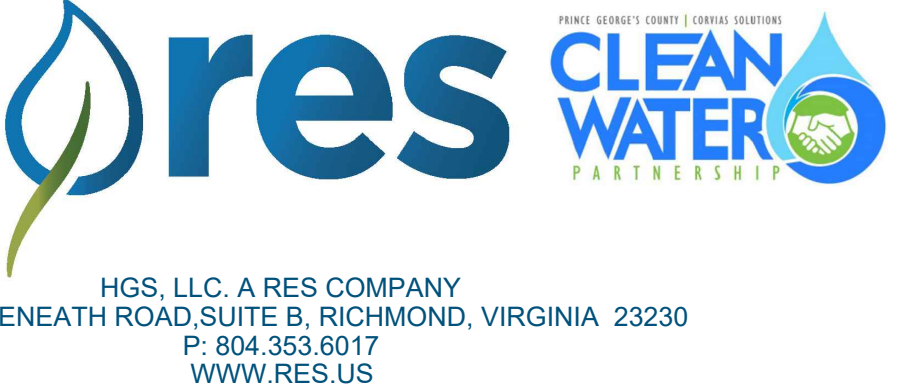
Daren Hester 1/26/2023
Owner or Owners Representative Date

30% DESIGN REVIEW	
N/A	----
PERMIT PLAN DESIGN REVIEW	
<i>Jauna Collins</i>	10/11/2022
CONSTRUCTION PLAN REVIEW	
N/A	----

REVISIONS	
1ST SUBMITTAL	10/18/2022
2ND SUBMITTAL	10/19/2022
3RD SUBMITTAL	11/9/2022
4TH SUBMITTAL	2/3/2023
5TH SUBMITTAL	6/16/2023

WINDSOR PARK STREAM RESTORATION
PRINCE GEORGE'S COUNTY, MD

PROJECT MANAGER:	JM	JOB NUMBER:	106604
DESIGNED:	EP	DESIGN TYPE:	TCP II.
DRAWN:	EP	PLAN DATE:	6/16/2023



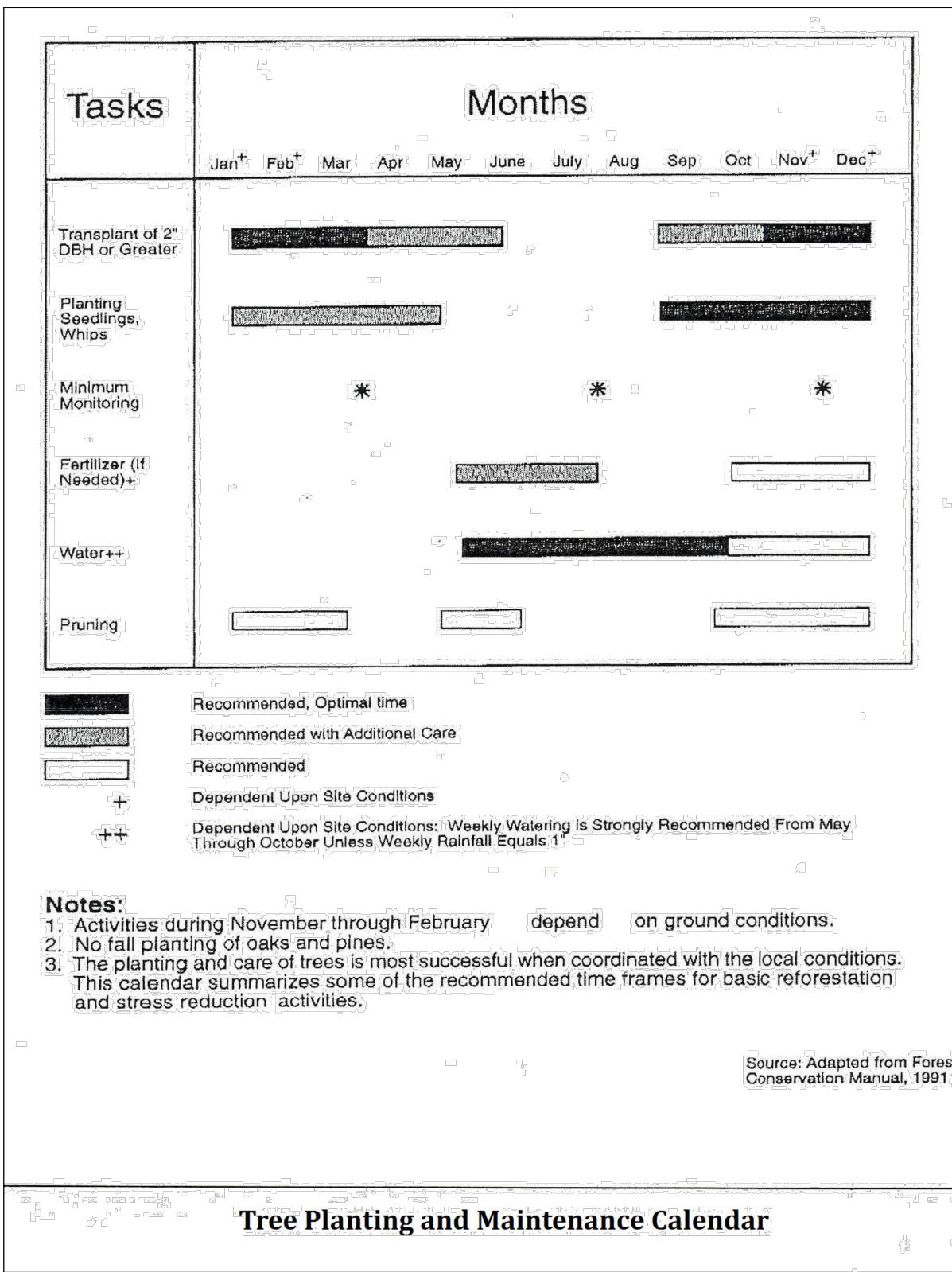
COVER SHEET

WETLAND/RIPARIAN PLANTING LIST

Planting Density: 775 stems/acre (7.5-ft-on-center) Planting Area: 0.27 acres

Botanical Name	Common Name	Percent of Mix	# of Stems	Planting Stock Type & Size
<i>Acer negundo</i>	Box elder	10%	0	Bareroot, 12-24"
<i>Acer rubrum</i>	Red maple	6%	13	Bareroot, 12-24"
<i>Alnus serrulata</i>	Hazel alder	3%	7	Bareroot, 12-24"
<i>Betula nigra</i>	River birch	6%	13	Bareroot, 12-24"
<i>Carpinus caroliniana</i>	Ironwood	4%	9	Bareroot, 12-24"
<i>Cephalanthus occidentalis</i>	Buttonbush	4%	9	Bareroot, 12-24"
<i>Clethra alnifolia</i>	Sweetspire	3%	7	Bareroot, 12-24"
<i>Cornus amomum</i>	Silky dogwood	4%	9	Bareroot, 12-24"
<i>Lindera benzoin</i>	Spicebush	4%	9	Bareroot, 12-24"
<i>Liquidambar styraciflua</i>	Sweet-gum	10%	22	Bareroot, 12-24"
<i>Myrica cerifera</i>	Wax myrtle	4%	9	Bareroot, 12-24"
<i>Platanus occidentalis</i>	American sycamore	12%	26	Bareroot, 12-24"
<i>Populus deltoides</i>	Eastern cottonwood	6%	14	Bareroot, 12-24"
<i>Quercus phellos</i>	Willow oak	7%	15	Bareroot, 12-24"
<i>Quercus lyrata</i>	Overcup oak	3%	7	Bareroot, 12-24"
<i>Quercus michauxii</i>	Swamp chestnut oak	4%	9	Bareroot, 12-24"
<i>Rosa palustris</i>	Swamp rose	3%	7	Bareroot, 12-24"
<i>Sambucus canadensis</i>	Elderberry	3%	7	Bareroot, 12-24"
<i>Taxodium distichum</i>	Baldcypress	4%	9	Bareroot, 12-24"
TOTALS		100%	209	

SUBSTITUTIONS TO THE ABOVE LISTED SPECIES MAY BE MADE DEPENDING ON NURSERY STOCK AVAILABILITY. ALL SUBSTITUTIONS SHALL BE APPROVED BY THE ENGINEER OR ENGINEER'S REPRESENTATIVE.



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				

PLANTING SCHEDULE-WOODLAND REFORESTATION AREA					
REFORESTATION AREA IDENTIFIER	ACREAGE	SQUARE FOOTAGE	SIZE	NUMBER REQUIRED PER ACRE	PLANTING CREDITS
WRA-1	0.224	9766.08	BARE ROOT SEEDLINGS OR WHIPS	775	173.60
WRA-2	0.00770	335.42	BARE ROOT SEEDLINGS OR WHIPS	775	5.97
WRA-3	0.0376	1637.38	BARE ROOT SEEDLINGS OR WHIPS	775	29.14
TOTAL REFORESTATION AREA:	0.27	11738.88		TOTAL SITE PLANTING CREDITS:	209

Forest Conservation Act Reporting Information (Change Table)				
	Original Approval	Revision Number (-01)	Revision Number (-02)	Change Since Last Approval
Net Tract (Acres)	0.28			
Existing Woodland (Acres)	0.24			
Woodland Cleared (Acres)	0.24			
Woodland Retained On-Site (Acres)	0.00			
Woodland Planted On-Site (Acres)	0.27			
On-Site Woodland Easement/ Preservation and Planting (Acres)	0.27			
On-Site Wooded Floodplain in Easement (Acres)	0.13			
Bond Amount	3528.36			
Fee-In-Lieu Amount	0.00			
50' Stream Buffers Conserved (Preservation) - Linear Length	323.00			
50' Stream Buffers Conserved (Preservation) - Acreage	0.27			
50' Stream Buffers Newly Established (Afforestation) - Linear Length	0.00			
50' Stream Buffers Newly Established (Afforestation) - Acreage	0.00			
Off-Site Woodland Conservation Credits Required (Acres)	0.00			
Off-Site Woodland Conservation Credits Provided (Acres)	0.00			

PLANTING SPECIFICATION NOTES:

- QUANTITY: (SEE PLANT SCHEDULE)
- TYPE: (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 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 MATERIAL AND SHALL BE MAINTAINED THROUGH PERIODIC WATERING, UNTIL THE TIME OF PLANTING.
- PLANT HANDLING: THE QUANTITY OF SEEDLINGS TAKEN TO THE FIELD SHALL NOT EXCEED THE QUANTITY THAT CAN BE PLANTED IN A DAY. SEEDLINGS, ONCE REMOVED FROM THE NURSERY 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 THE GROUND SURFACE. AIR POCKETS SHOULD NOT BE LEFT AFTER CLOSING THE HOLE WHICH WOULD ALLOW THE ROOTS TO DRY OUT. SEE PLANTING DETAILS FOR FURTHER EXPLANATION. IF THE CONTRACTOR WISHES TO PLANT BY ANOTHER METHOD, THE PREPARER OF THIS TREE CONSERVATION PLAN MUST BE CONTACTED AND GIVE HIS APPROVAL BEFORE PLANTING MAY BEGIN.
- SPACING: SEE PLANT SCHEDULE AND/OR PLANTING PLAN FOR SPACING REQUIREMENTS. ALSO REFER TO THE PLANTING LAYOUT DETAIL FOR A DESCRIPTION OF THE GENERAL PLANTING 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 SOIL 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 OPERATIONS UNLESS IT WAS INSTALLED DURING THE INITIAL STAGES OF DEVELOPMENT. SIGNS SHALL BE POSTED PER THE SIGNAGE DETAIL ON SHEET 4.
- 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 PLATING SITE (SEE DETAIL SHOWN ON THIS PLAN).
- GROUND COVER 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.
- MOWING: NO MOWING SHALL BE ALLOWED IN ANY PLANTING AREA.
- 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.
- SOURCE OF SEEDLINGS: TBD

FOUR-YEAR MANAGEMENT PLAN FOR REFORESTATION AREAS

FIELD CHECK THE REFORESTATION AREA ACCORDING TO THE FOLLOWING SCHEDULE:

- YEAR 1: 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 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 MAY AND 1 X IN AUGUST MIN.)
- YEAR 4: REINFORCEMENT PLANTING IF NEEDED, (SEE NOTE 2) SURVIVAL CHECK (SEPTEMBER - NOVEMBER)

- 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.
- 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.
- 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.

GENERAL NOTES:

- THIS PLAN IS SUBMITTED TO FULFILL THE WOODLAND CONSERVATION REQUIREMENTS FOR DOE# 26230-2022-0. 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 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 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.
- 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.
- 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 R-R.
- THE SITE IS NOT ADJACENT TO A ROADWAY DESIGNATED AS SCENIC, HISTORIC, A PARKWAY OR A SCENIC BYWAY.
- THE SITE IS NOT ADJACENT TO A ROADWAY CLASSIFIED AS ARTERIAL OR GREATER.
- THIS PLAN IS NOT GRANDFATHERED UNDER CB-27-2010, SECTION 25-117 (G).

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. 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 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 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 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 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.
- 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; 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.
- 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.

INVASIVE SPECIES REMOVAL NOTES

- THE REMOVAL OF NOXIOUS, INVASIVE, AND NON-NATIVES PLANT SPECIES SHALL BE DONE WITH THE USE OF HAND-HELD EQUIPMENT ONLY SUCH AS PRUNERS OR A CHAIN SAW. THESE PLANTS MAY BE CUT NEAR THE GROUND AND THE MATERIAL LESS THAN TWO INCHES DIAMETER MAY BE REMOVED FROM THE AREA AND DISPOSED OF APPROPRIATELY. ALL MATERIAL FROM THESE NOXIOUS, INVASIVE, AND NON-NATIVE PLANTS GREATER THAN TWO (2) INCHES DIAMETER SHALL BE CUT TO ALLOW CONTACT WITH THE GROUND, THUS ENCOURAGING 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 AND BE APPLIED BY A CERTIFIED PESTICIDE APPLICATOR. WHEN VIRGINIA PINES ARE PRESENT WITHIN 40 FEET OF THE LIMITS OF DISTURBANCE IN A PRESERVATION AREA:

QUALIFIED PROFESSIONAL CERTIFICATION

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

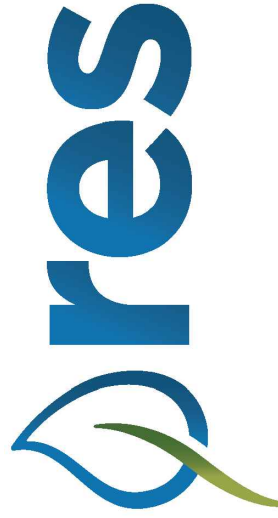
Signed: *Laura Collins* Date: 6/16/2023
(Place printed name, address, phone number, and e-mail address of qualified professional below the signature.)

M-NCPPC	
Prince George's Planning Department Environmental Planning Section APPROVAL	
TREE CONSERVATION PLAN TCP2-042-2022	
Approved by	Date
Initial staff signature	<i>Alexander Smith</i> 6/22/2023
01 revision	
02 revision	
03 revision	

WINDSOR PARK STREAM RESTORATION
CLIENT: CORVIAS PRINCE GEORGE'S COUNTY
STORMWATER PARTNERS, LLC

TCP 2 NOTES

PRINCE GEORGE'S COUNTY, MD



HGS, LLC A RES COMPANY
1408 ROSENEATH ROAD, SUITE B, RICHMOND, VIRGINIA 23220
WWW.RES.US

STAMP/SEAL:

30% DESIGN REVIEW

N/A Signature Date

PERMIT PLAN DESIGN REVIEW

Alexander Smith 10/11/2022
Signature Date

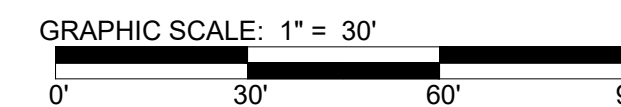
CONSTRUCTION PLAN REVIEW

N/A Signature Date

REVISIONS:

1ST SUBMITTAL 10/18/2022
2ND SUBMITTAL 10/19/2022
3RD SUBMITTAL 11/9/2022
4TH SUBMITTAL 2/3/2023
5TH SUBMITTAL 6/16/2023

PROJECT MANAGER: JM
DESIGNED: EP
DRAWN: EP
JOB NUMBER: 106604
DESIGN TYPE: TCP II
DATE: 6/16/2023
SHEET NO:



EX. PROPERTY LINE
 EX. PROPERTY ADJACENT
 EX. RIGHT-OF-WAY
 EX. EASEMENT
 EX. SOILS BOUNDARY
 EX. MAJOR CONTOUR
 EX. MINOR CONTOUR
 EX. EDGE OF PAVEMENT
 EX. ROAD CENTERLINE
 EX. TREELINE
 EX. LIMITS OF SURVEY
 EX. SANITARY SEWER
 EX. STORM SEWER
 EX. CULVERT
 EX. TOP OF BANK
 EX. STREAM CENTERLINE
 EX. FLOODPLAIN
 EX. STREAM BUFFER
 EX. WETLAND BUFFER
 EX. PRIMARY MANAGEMENT AREA (PMA)
 EX. STEEP SLOPES (15% OR GREATER)
 EX. WETLAND
 EX. RIP RAP
 EX. SPECIMEN TREE WITH
 CRITICAL ROOT ZONE
 PR. LIMITE DISTURBANCE
 PR. MAJOR CONTOUR
 PR. MINOR CONTOUR
 PR. TEMPORARY TREE PROTECTION FENCE
 PR. RIP RAP
 PR. FORESTED WETLAND
 PR. CLEARED FLOODPLAIN AREA
 PR. WOODLAND REFORESTATION AREA
 PR. REFORESTATION SIGN

WINDSOR PARK STREAM RESTORATION
CLIENT: CORVIAS PRINCE GEORGE'S COUNTY
STORMWATER PARTNERS, LLC

PROJECT MANAGER:	JM
DESIGNED:	EP
DRAWN:	EP
JOB NUMBER:	106604
DESIGN TYPE:	TCP II
DATE:	6/16/2023
SHEET NO:	

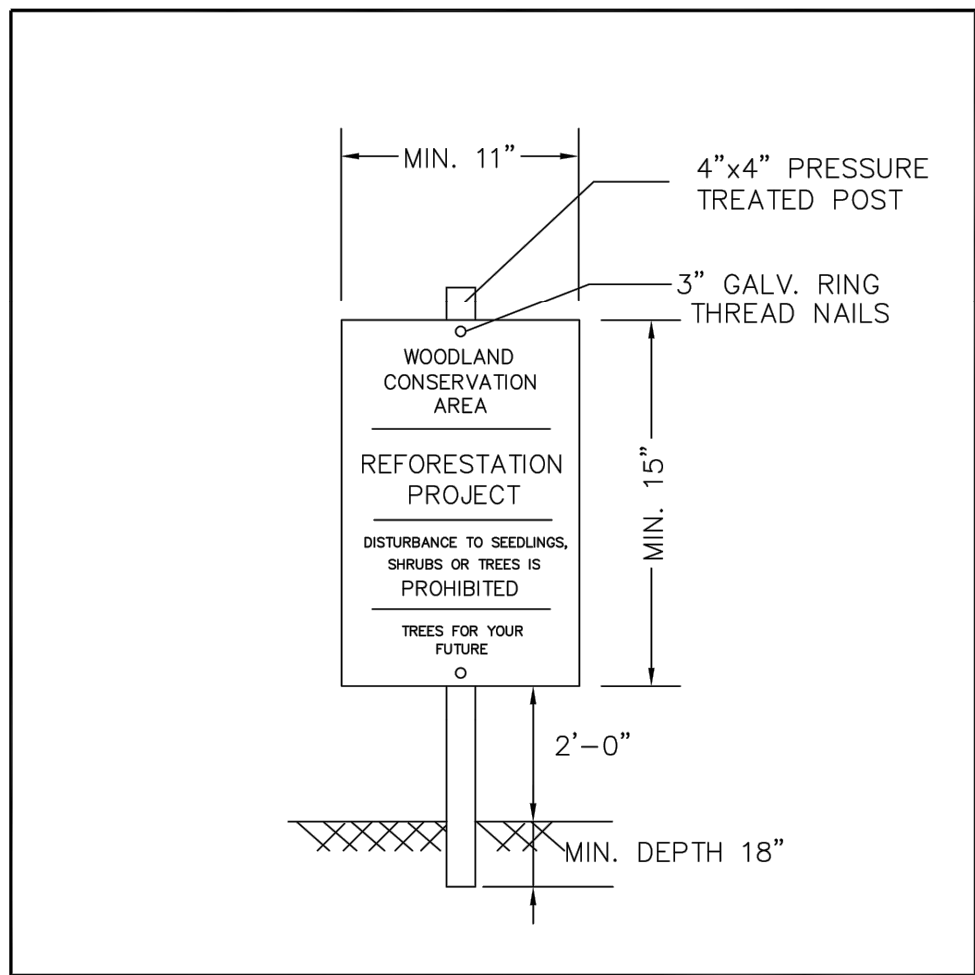
3 OF 4

1. TOPOGRAPHIC INFORMATION AND LINEWORK SHOWN WITHIN THE SURVEY LIMITS IS BASED ON SURVEYS PERFORMED BY A. MORTON THOMAS AND ASSOCIATES INC. IN MAY 2022 AND SOLTESZ LLC IN MAY 2018. CONTOUR INTERVAL IS ONE (1) FOOT.
2. LINEWORK OUTSIDE THE SURVEY LIMITS IS BASED ON AVAILABLE GIS DATA. CONTOUR INTERVAL IS TWO (2) FEET.
3. WETLAND DELINEATION PERFORMED BY RES JULY 14, 2022.
4. ALL PROPERTY LINES ARE BASED ON AVAILABLE GIS DATA.
5. DATUM: NAD83/NAV88

Signed: Laura Collins Date: 6/16/2023
(Place printed name, address, phone number, and e-mail address of qualified professional below the signature)

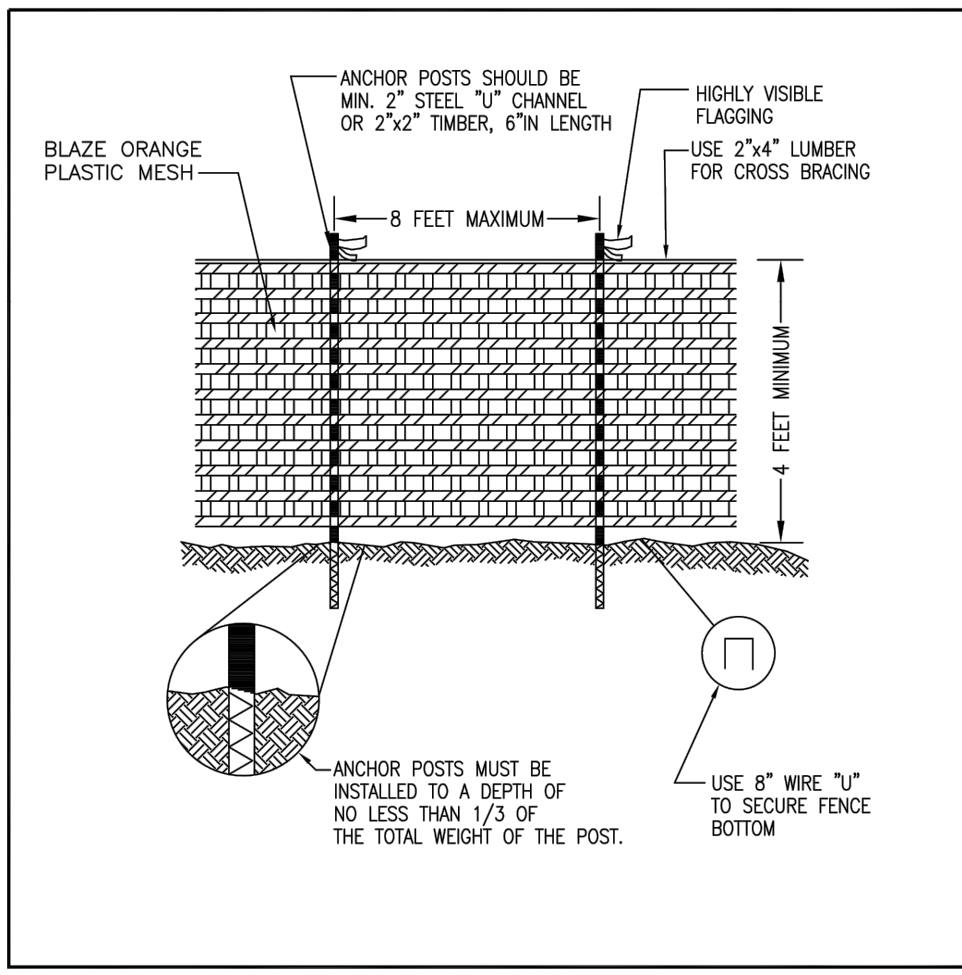
Approved by		Date
Initial staff signature	<i>Alexander Kirchhof</i>	6/2
01 revision		
02 revision		
03 revision		

WHITESIDE FREDERICK & GENE
TAX ACCOUNT: 1781947
ACREAGE: 0.375
ZONING: RR
6108 RICHMANOR TERRACE,
UPPER MARLBORO, MD 20772



- 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.

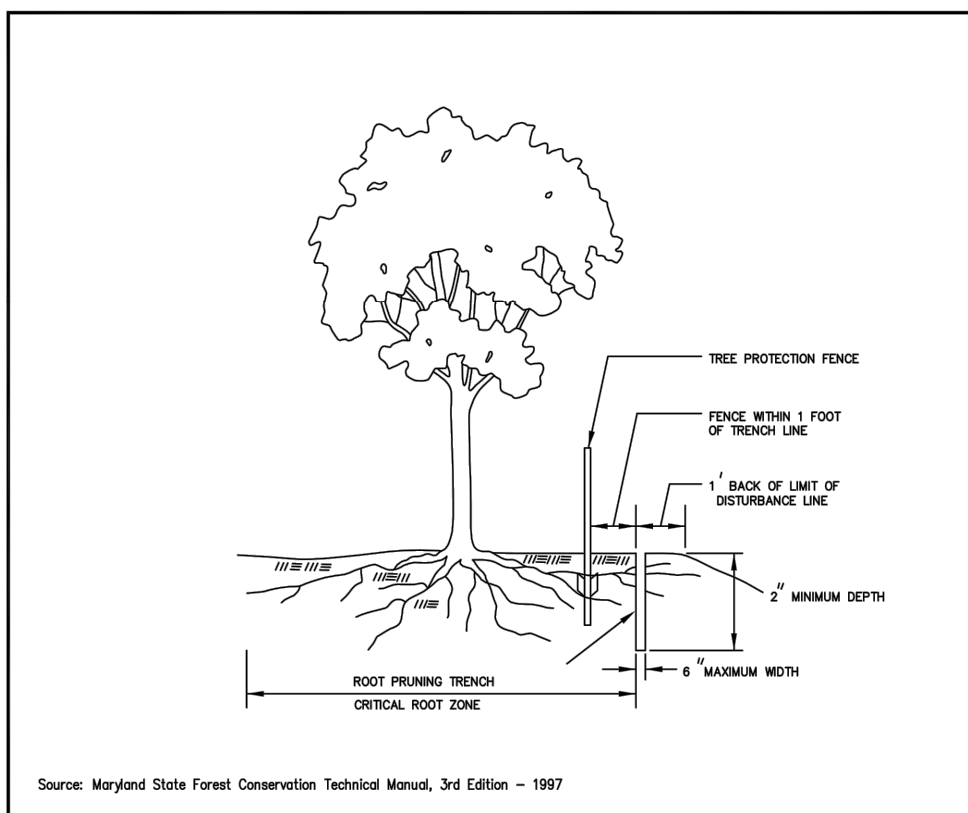
REFORESTATION AREA SIGN



NOTES: (MUST BE INCLUDED WITH DETAIL)

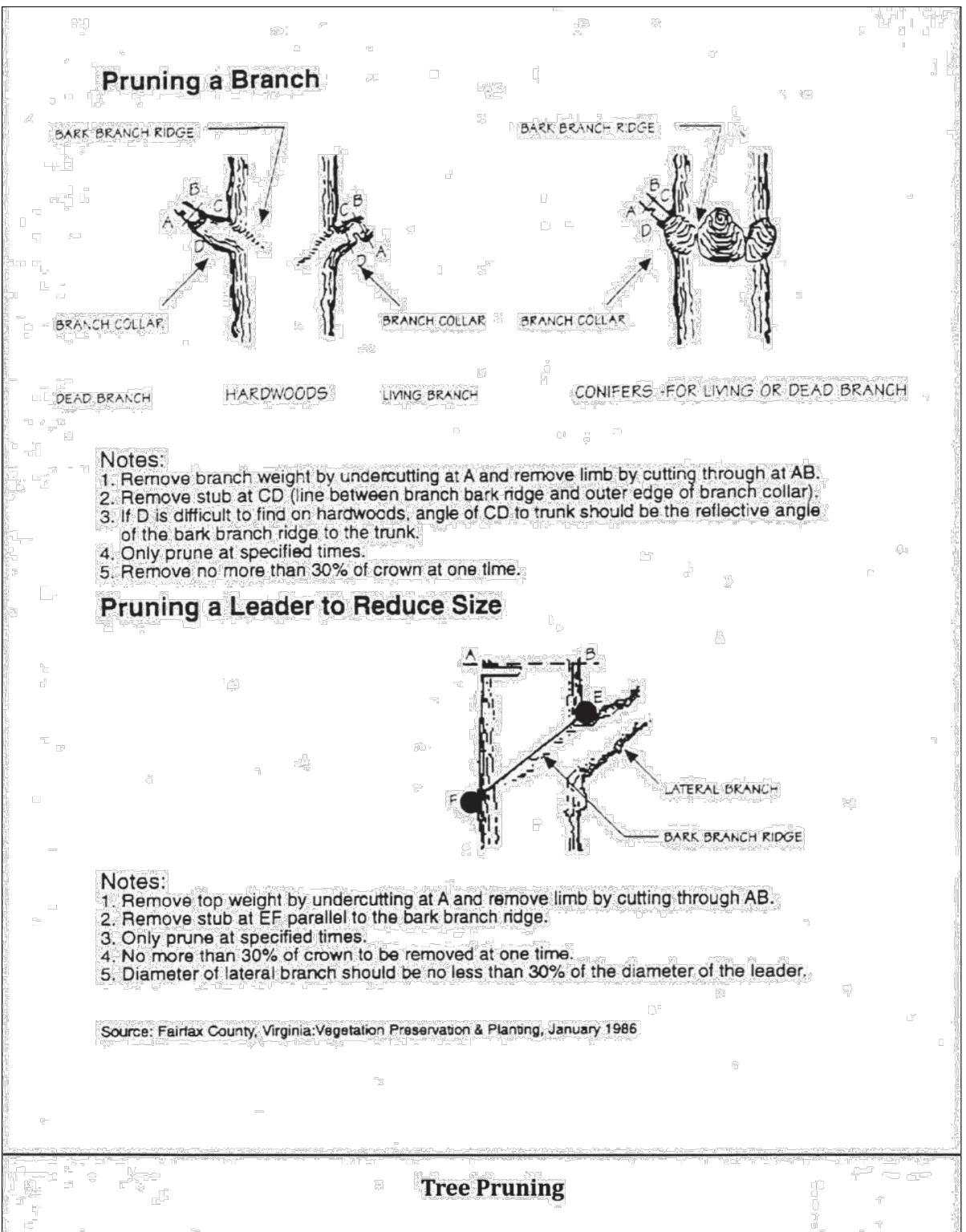
1. FOREST PROTECTION DEVICE ONLY.
2. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
3. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICES.
4. AVOID ROOT DAMAGE WHEN PLACING ANCHOR POSTS.
5. DEVICE SHOULD BE PROPERLY MAINTAINED DURING CONSTRUCTION.
6. PROTECTIVE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

TYPE 1 (TEMPORARY) TREE PROTECTION FENCE DETAIL FOR WOODLAND PRESERVATION AREAS

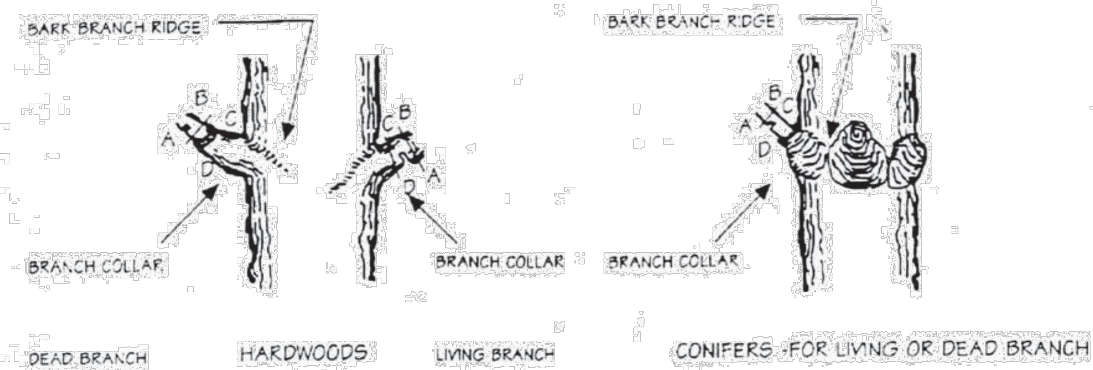


- NOTES:
1. RETENTION AREAS TO BE ESTABLISHED AS PART OF THE FOREST CONSERVATION PLAN REVIEW PROCESS.
 2. BOUNDARIES OF RETENTION AREAS SHOULD BE STAKED, FLAGGED AND/OR FENCED PRIOR TO TRENCHING.
 3. EXACT LOCATION OF TRENCH SHOULD BE IDENTIFIED.
 4. TRENCH SHOULD BE IMMEDIATELY BACKFILLED WITH SOIL REMOVED OR OTHER HIGH ORGANIC SOIL.
 5. ROOTS SHOULD BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE EQUIPMENT.

ROOT PRUNING



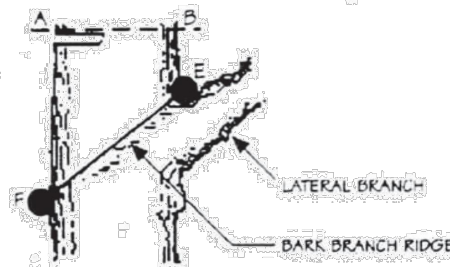
Pruning a Branch



Notes:

1. Remove branch weight by undercutting at A and remove limb by cutting through at AB.
2. Remove stub at CD (line between branch bark ridge and outer edge of branch collar).
3. If D is difficult to find on hardwoods, angle of CD to trunk should be the reflective angle of the bark branch ridge to the trunk.
4. Only prune at specified times.
5. Remove no more than 30% of crown at one time.

Pruning a Leader to Reduce Size

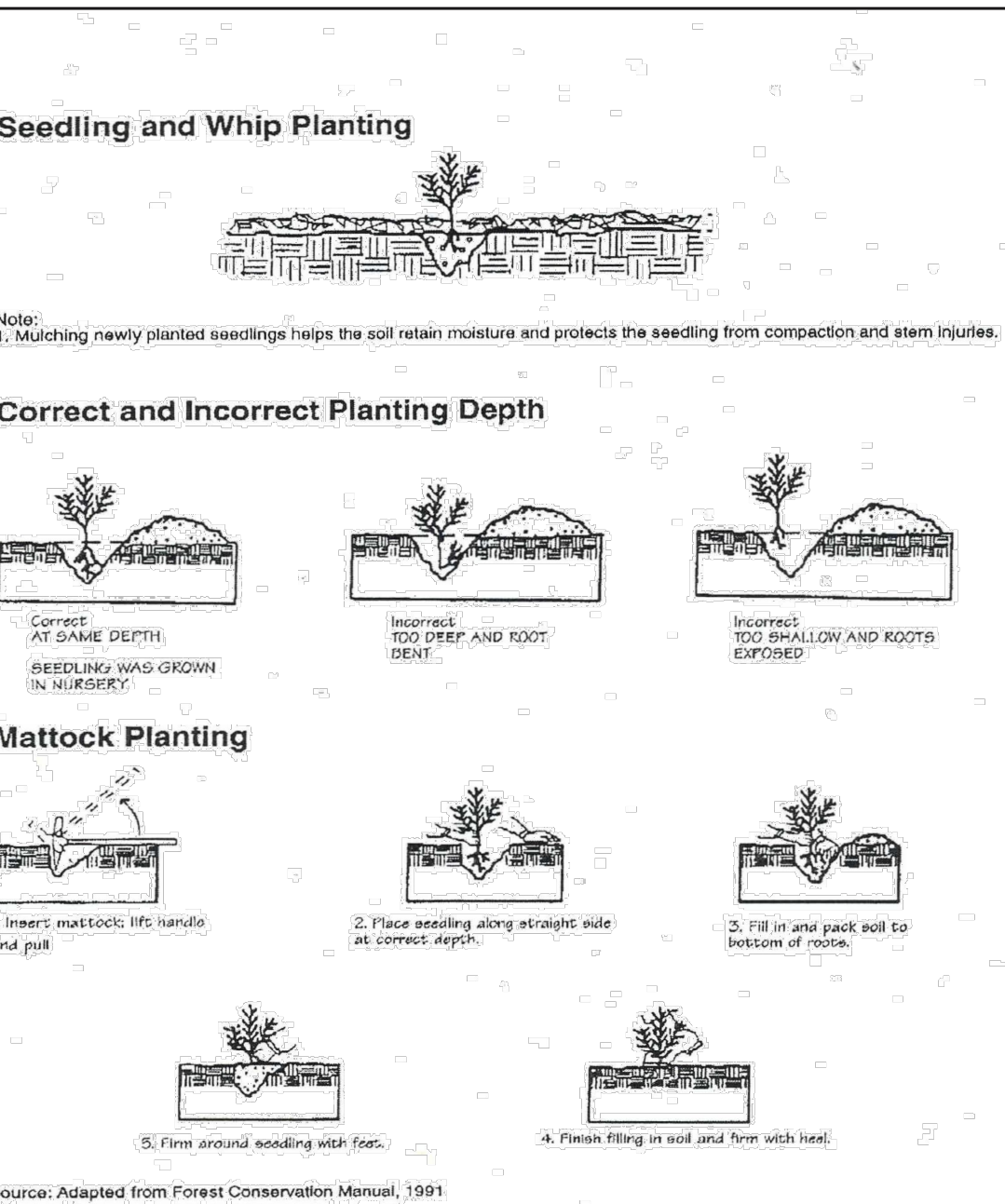


Notes:

1. Remove top weight by undercutting at A and remove limb by cutting through AB.
2. Remove stub at EF parallel to the bark branch ridge.
3. Only prune at specified times.
4. No more than 30% of crown to be removed at one time.
5. Diameter of lateral branch should be no less than 30% of the diameter of the leader.

Source: Fairfax County, Virginia: Vegetation Preservation & Planting, January 1986

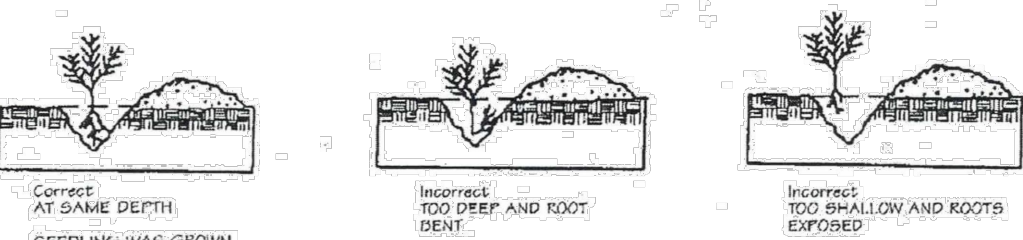
Tree Pruning



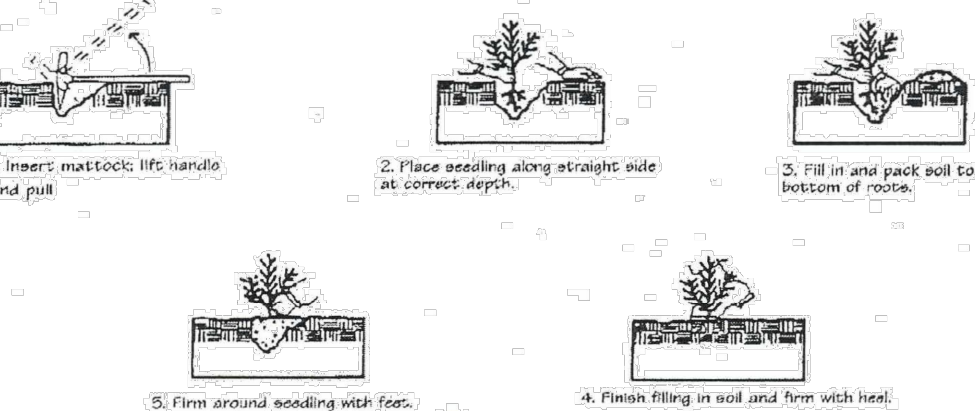
Seedling and Whip Planting

Note:
1. Mulching newly planted seedlings helps the soil retain moisture and protects the seedling from compaction and stem injuries.

Correct and Incorrect Planting Depth

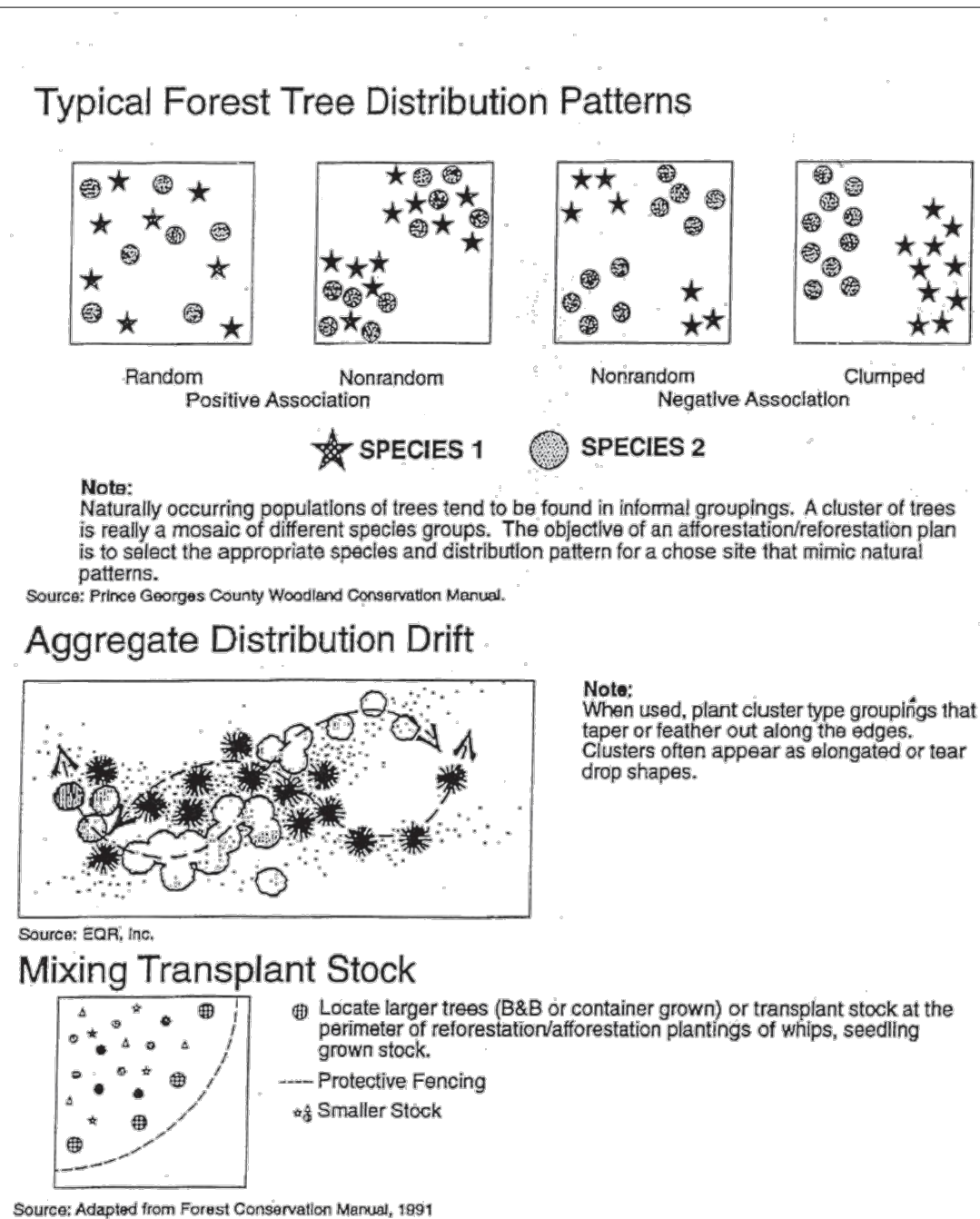


Mattock Planting

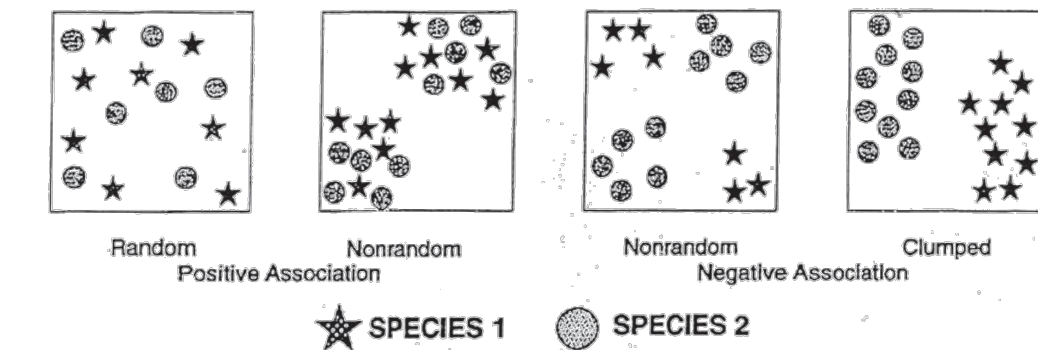


Source: Adapted from Forest Conservation Manual, 1991

Seedling and Whip Planting Techniques



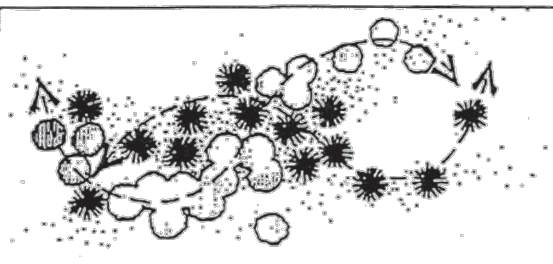
Typical Forest Tree Distribution Patterns



Note:
Naturally occurring populations of trees tend to be found in informal groupings. A cluster of trees is really a mosaic of different species groups. The objective of an afforestation/reforestation plan is to select the appropriate species and distribution pattern for a chosen site that mimics natural patterns.

Source: Prince Georges County Woodland Conservation Manual.

Aggregate Distribution Drift



Note:
When used, plant cluster type groupings that taper or feather out along the edges. Clusters often appear as elongated or tear drop shapes.

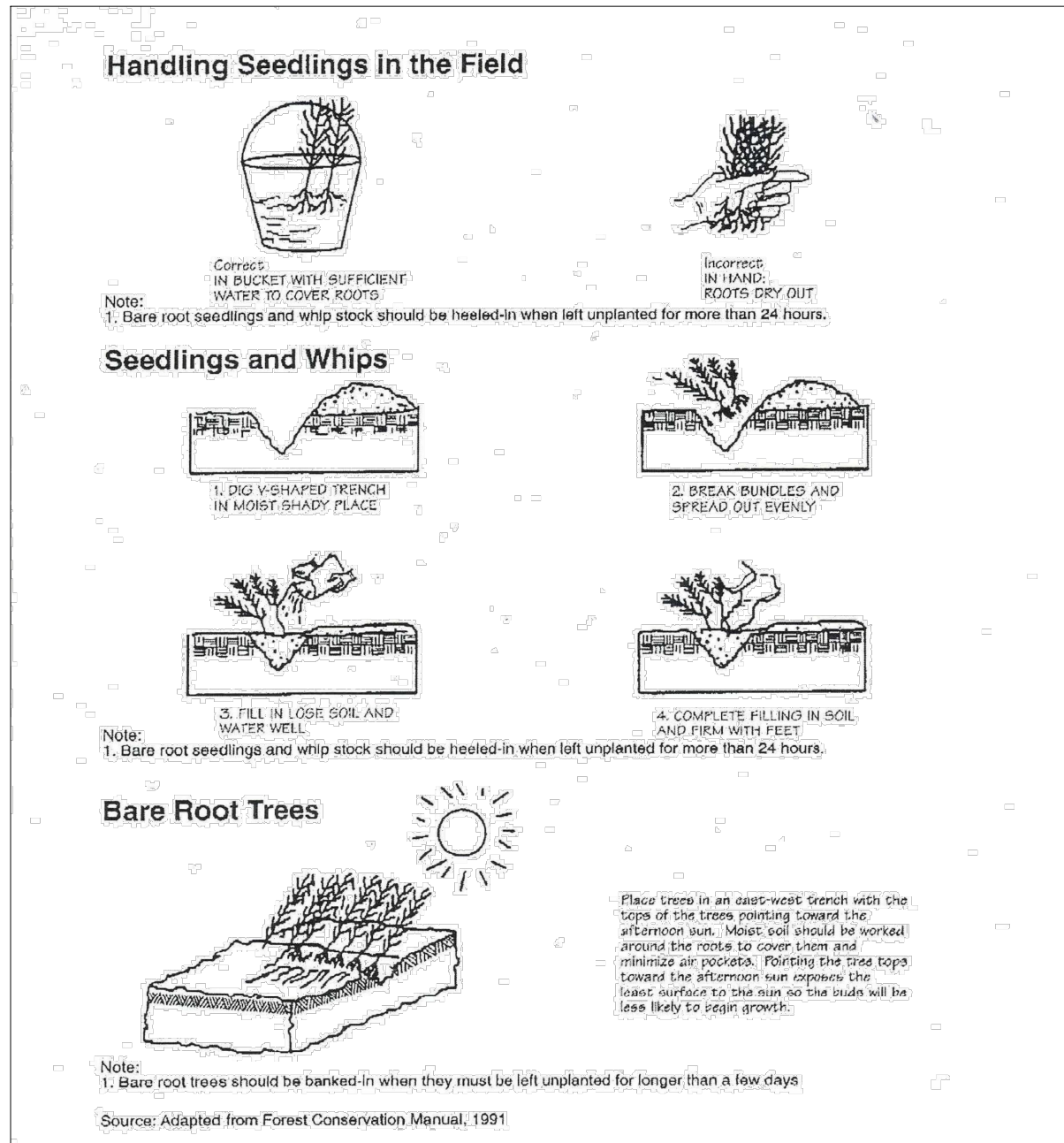
Source: BQR, Inc.

Mixing Transplant Stock

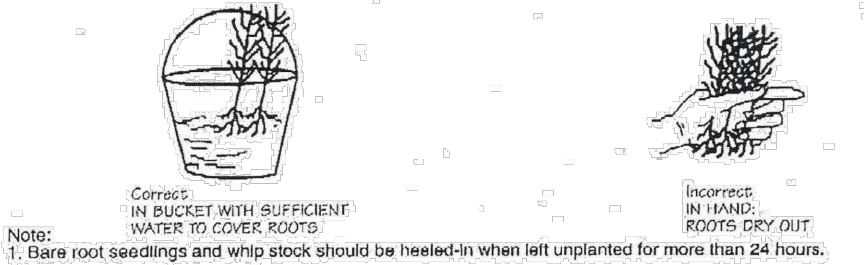
- Locate larger trees (B&B or container grown) or transplant stock at the perimeter of reforestation/afforestation plantings of whips, seedling
- Protective Fencing
- Smaller Stock

Source: Adapted from Forest Conservation Manual, 1991

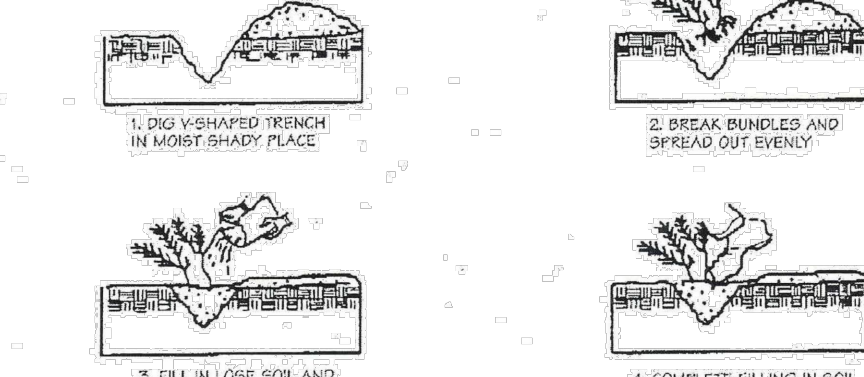
Planting Distribution Patterns



Handling Seedlings in the Field

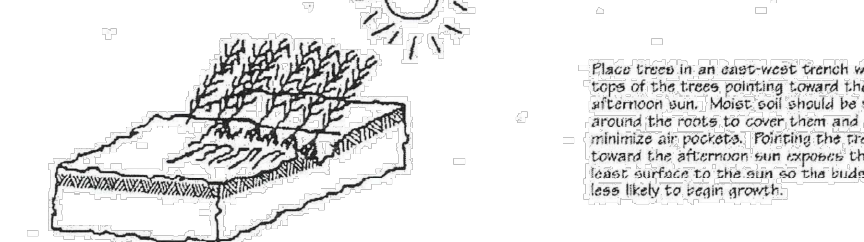


Seedlings and Whips



Note:
1. Bare root seedlings and whip stock should be heeled-in when left unplanted for more than 24 hours.

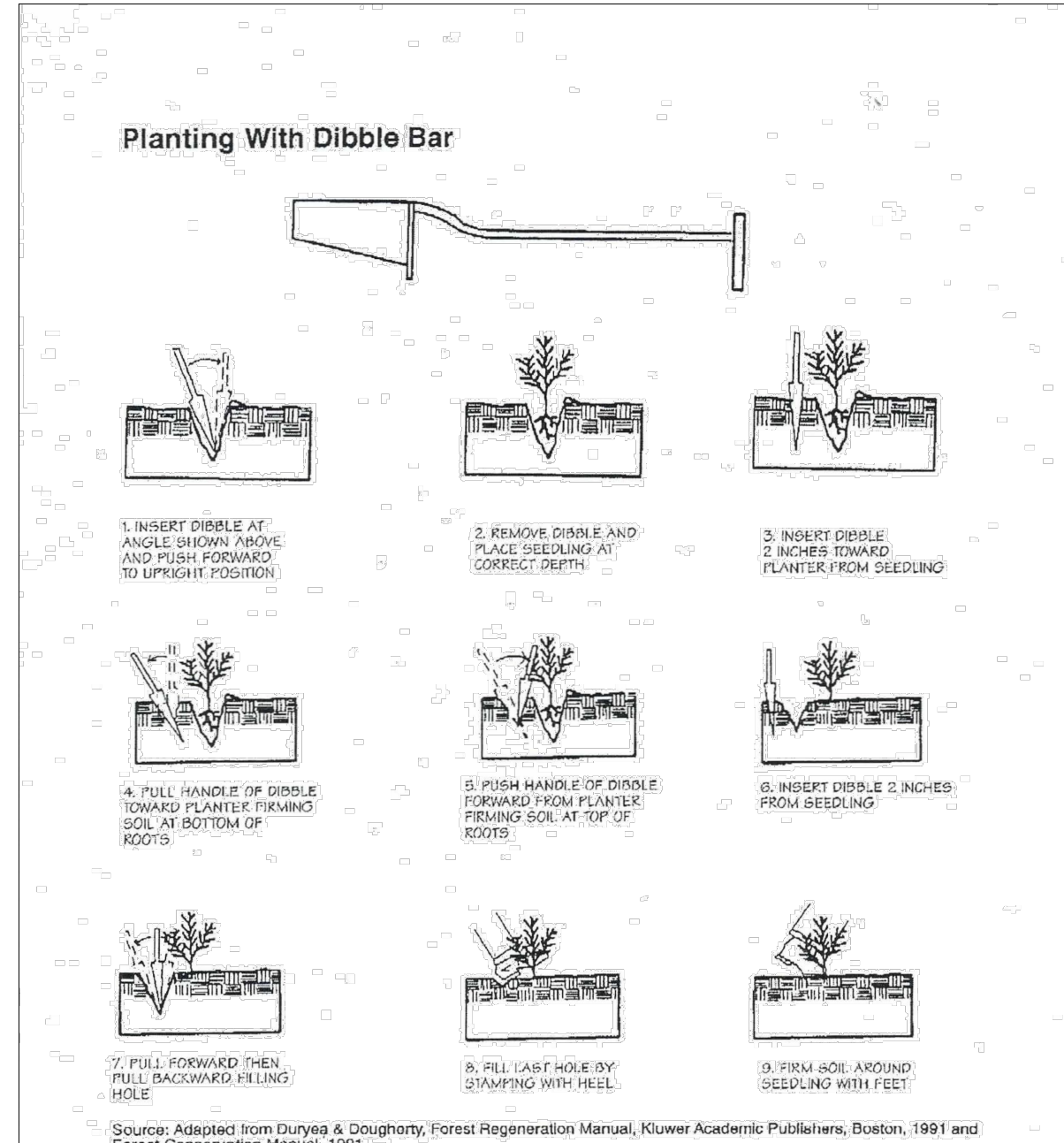
Bare Root Trees



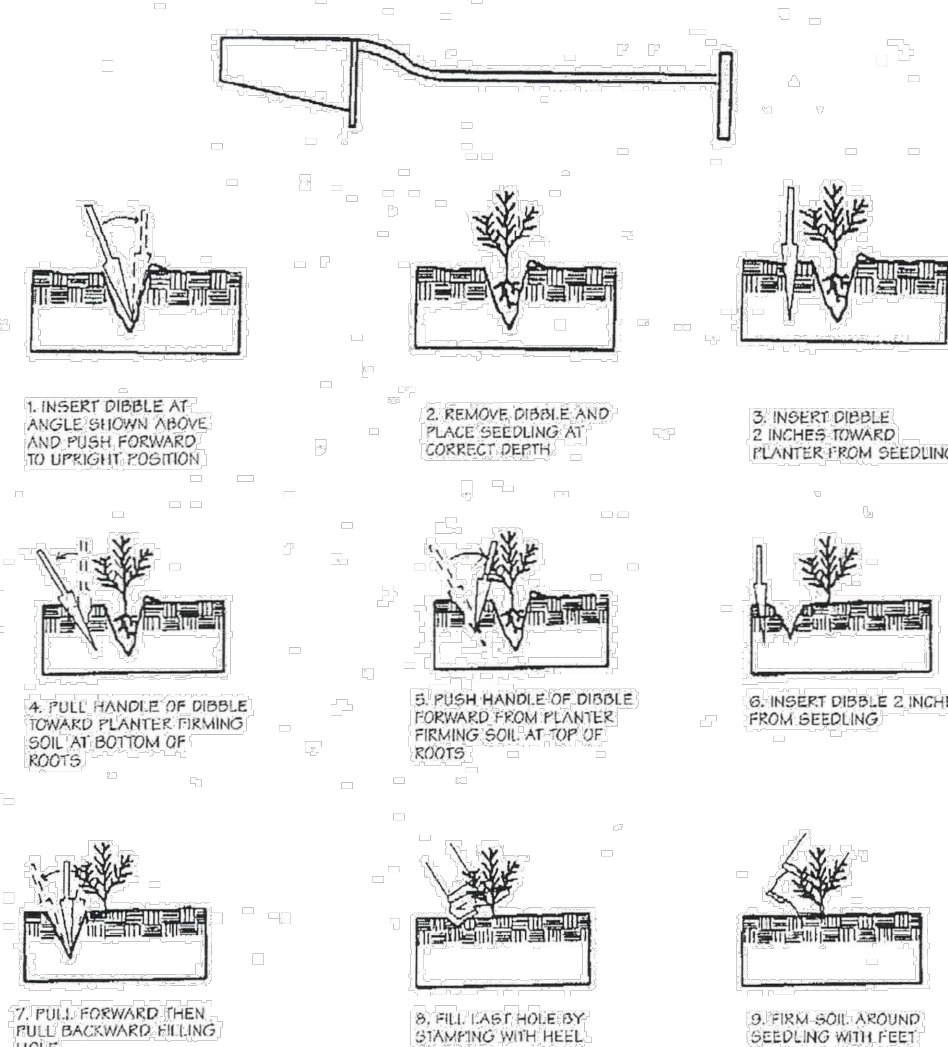
Note:
1. Bare root trees should be heeled-in when they must be left unplanted for longer than a few days.

Source: Adapted from Forest Conservation Manual, 1991

Handling Bare Root Stock



Planting With Dibble Bar



Source: Adapted from Dunyva & Dougherty, Forest Regeneration Manual, Kluwer Academic Publishers, Boston, 1991 and Forest Conservation Manual, 1991

Seedling Planting Techniques

QUALIFIED PROFESSIONAL CERTIFICATION

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

Signed: *Laura Collins* Date: 6/16/2023

(Place printed name, address, phone number, and e-mail address of qualified professional below the signature.)

M-NCPPC		
Prince George's Planning Department Environmental Planning Section		
APPROVAL		
TREE CONSERVATION PLAN TCP2-042-2022		
Approved by		Date
Initial staff signature	<i>Alvinde Givley</i>	6/22/2023
01 revision		
02 revision		
03 revision		

WINDSOR PARK STREAM RESTORATION
CLIENT: CORVIAS PRINCE GEORGE'S COUNTY
STORMWATER PARTNERS, LLC

TCP 2 DETAILS

PRINCE GEORGE'S COUNTY, MD

STAMP/SEAL:

30% DESIGN REVIEW

N/A
Signature Date

PERMIT PLAN DESIGN REVIEW

Debra Wilfong 10/11/2022
Signature Date

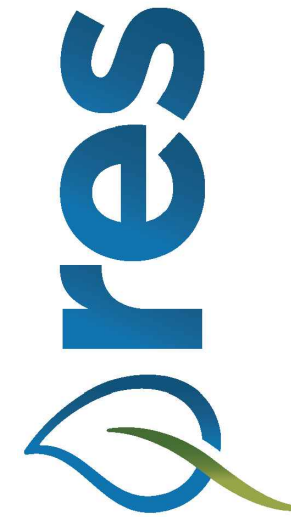
CONSTRUCTION PLAN REVIEW

N/A
Signature Date

REVISIONS:

1ST SUBMITTAL 10/18/2022
2ND SUBMITTAL 10/19/2022
3RD SUBMITTAL 11/9/2022
4TH SUBMITTAL 2/3/2023
5TH SUBMITTAL 6/16/2023

PROJECT MANAGER: JM
DESIGNED: EP
DRAWN: EP
JOB NUMBER: 106604
DESIGN TYPE: TCP II
DATE: 6/16/2023
SHEET NO:



HGS, LLC A RES COMPANY
1408 ROSENEATH ROAD, SUITE B, RICHMOND VIRGINIA 23230
WWW.RES.US