

VIKA MARYLAND, LLC 20251 CENTURY BOULEVARD SUITE #400 GERMANTOWN, MARYLAND 20874

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GERMANTOWN, MD. MCLEAN, VA. MONTGOMERY VILLAGE **BUSINESS TRUST** c/o MONUMENT REALTY 1700 K Street, NW, Suite 600, Washington, DC 20006

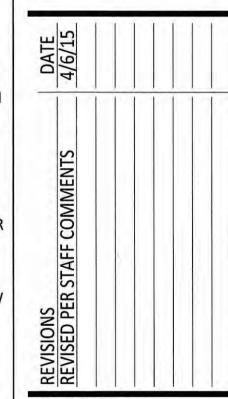
DESIGN CONSULTANTS

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CIVIL ENGINEER
VIKA MARYLAND, LLC 20251 CENTURY BOULEVARD





I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARE OR APPROVED BY ME, AND THAT I AM A DULY LICENSED REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF

BLOOM MV AREA IV

9TH ELECTION DISTRICT MONTGOMERY COUNTY, MARYLAND WSSC GRID: 227NW09

CONSERVATION PLAN

DESIGNED BY: ____CSB DATE ISSUED: <u>04/06/2015</u> SHEET PFCP-1

LAYOUT: PFCP-1, Plotted By: chapman

ATTACHMENT 1

SEQUENCE OF EVENTS FOR PROPERTY OWNERS REQUIRED TO COMPLY WITH FOREST CONSERVATION AND/OR TREE-SAVE PLANS

(MNCPPC STANDARD NOTES)

PRE-CONSTRUCTION

- AN ON-SITE PRE-CONSTRUCTION MEETING IS REQUIRED AFTER THE LIMITS OF DISTURBANCE HAVE BEEN STAKED AND FLAGGED, BUT BEFORE ANY CLEARING OR GRADING BEGINS. THE PROPERTY OWNER SHOULD CONTACT THE MONTGOMERY COUNTY PLANNING DEPARTMENT INSPECTION STAFF BEFORE CONSTRUCTION TO VERIFY THE LIMITS OF DISTURBANCE AND DISCUSS TREE PROTECTION AND TREE CARE MEASURES. THE DEVELOPER'S REPRESENTATIVE, CONSTRUCTION SUPERINTENDENT, ISA CERTIFIED ARBORIST OR MARYLAND-LICENSED TREE EXPERT THAT WILL IMPLEMENT THE TREE PROTECTION MEASURES. FOREST CONSERVATION INSPECTOR. DEPARTMENT OF PERMITTING SERVICES (DPS) SEDIMENT CONTROL INSPECTOR AND DPS SITE PLAN INSPECTOR SHOULD ATTEND THIS PRE-CONSTRUCTION MEETING.
- NO CLEARING OR GRADING SHALL BEGIN BEFORE STRESS-REDUCTION MEASURES HAVE BEEN IMPLEMENTED. APPROPRIATE MEASURES MAY INCLUDE, BUT ARE NOT LIMITED TO:
- a. ROOT PRUNING
- b. CROWN REDUCTION OR PRUNING c. WATERING
- d. FERTILIZING e. VERTICAL MULCHING
- f. ROOT AERATION MATTING MEASURES NOT SPECIFIED ON THE FOREST CONSERVATION PLAN MAY BE REQUIRED AS DETERMINED BY THE FOREST CONSERVATION INSPECTOR IN COORDINATION WITH THE ARBORIST.
- A MARYLAND-LICENSED TREE EXPERT OR AN INTERNATIONAL SOCIETY OF ARBORICULTURE CERTIFIED ARBORIST MUST PERFORM ALL STRESS REDUCTION MEASURES. DOCUMENTATION OF STRESS REDUCTION MEASURES MUST BE EITHER OBSERVED BY THE FOREST CONSERVATION INSPECTOR OR SENT TO THE INSPECTOR AT 8787 GEORGIA AVENUE, SILVER SPRING, MD 20910. THE FOREST CONSERVATION INSPECTOR WILL DETERMINE THE EXACT METHOD TO CONVEY THE STRESS REDUCTIONS MEASURES DURING THE PRE-CONSTRUCTION MEETING.
- TEMPORARY TREE PROTECTION DEVICES SHALL BE INSTALLED PER THE FOREST CONSERVATION PLAN/TREE SAVE PLAN AND PRIOR TO ANY CONSTRUCTION ACTIVITIES. TREE PROTECTION FENCING LOCATIONS SHOULD BE STAKED PRIOR TO THE PRE-CONSTRUCTION MEETING. THE FOREST CONSERVATION INSPECTOR, IN COORDINATION WITH THE DPS SEDIMENT CONTROL INSPECTOR, MAY MAKE FIELD ADJUSTMENTS TO INCREASE THE SURVIVABILITY OF TREES AND FOREST SHOWN AS SAVED ON THE APPROVED PLAN. TEMPORARY TREE PROTECT DEVICES MAY INCLUDE:
- a. CHAIN LINK FENCE (FOUR FEET HIGH)
- b. SUPER SILT FENCE WITH WIRE STRUNG BETWEEN SUPPORT POLES (MINIMUM 4 FEET HIGH) WITH HIGH VISIBILITY FLAGGING. c. 14 GAUGE 2 INCH X 4 INCH WELDED WIRE FENCING SUPPORTED BY STEEL T-BAR POSTS (MINIMUM
- 4 FEET HIGH) WITH HIGH VISIBILITY FLAGGING.
- TEMPORARY PROTECTION DEVICES SHALL BE MAINTAINED AND INSTALLED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION PROJECT AND MUST NOT BE ALTERED WITHOUT PRIOR APPROVAL FROM THE FOREST CONSERVATION INSPECTOR. NO EQUIPMENT, TRUCKS, MATERIALS, OR DEBRIS MAY BE STORED WITHIN THE TREE PROTECTION FENCE AREAS DURING THE ENTIRE CONSTRUCTION PROJECT. NO VEHICLE OR EQUIPMENT ACCESS TO THE FENCED AREA WILL BE PERMITTED. TREE PROTECTION SHALL NOT BE REMOVED WITHOUT PRIOR APPROVAL OF FOREST CONSERVATION INSPECTOR.
- FOREST RETENTION AREA SIGNS SHALL BE INSTALLED AS REQUIRED BY THE FOREST CONSERVATION INSPECTOR, OR AS SHOWN ON THE APPROVED PLAN.
- LONG-TERM PROTECTION DEVICES WILL BE INSTALLED PER THE FOREST CONSERVATION PLAN/TREE SAVE PLAN AND ATTACHED DETAILS. INSTALLATION WILL OCCUR AT THE APPROPRIATE TIME DURING THE CONSTRUCTION PROJECT. REFER TO THE PLAN DRAWING FOR LONG-TERM PROTECTION MEASURES TO BE INSTALLED.

DURING CONSTRUCTION

PERIODIC INSPECTIONS BY THE FOREST CONSERVATION INSPECTOR WILL OCCUR DURING THE CONSTRUCTION PROJECT. CORRECTIONS AND REPAIRS TO ALL TREE PROTECTION DEVICES, AS DETERMINED BY THE FOREST CONSERVATION INSPECTOR, MUST BE MADE WITHIN THE TIMEFRAME ESTABLISHED BY THE INSPECTOR.

POST-CONSTRUCTION

- AFTER CONSTRUCTION IS COMPLETED, AN INSPECTION SHALL BE REQUESTED. CORRECTIVE MEASURES MAY INCLUDE:
- a. REMOVAL AND REPLACEMENT OF DEAD AND DYING TREES b. PRUNING OF DEAD OR DECLINING LIMBS
- c. SOIL AERATION d. FERTILIZATION
- e. WATERING
- f. WOUND REPAIR
- g. CLEAN UP OF RETENTION AREAS
- 10. AFTER INSPECTION AND COMPLETION OF CORRECTIVE MEASURES HAVE BEEN UNDERTAKEN, ALL TEMPORARY PROTECTION DEVICES SHALL BE REMOVED FROM THE SITE. REMOVAL OF TREE PROTECTION DEVICES THAT ALSO OPERATE FOR EROSION AND SEDIMENT CONTROL MUST BE COORDINATED WITH BOTH THE DEPARTMENT OF PERMITTING SERVICES AND THE FOREST CONSERVATION INSPECTOR. NO ADDITIONAL GRADING, SODDING, OR BURIAL MAY TAKE PLACE AFTER THE TREE PROTECTION FENCING IS REMOVED.

INSPECTIONS

(MNCPPC STANDARD NOTES)

ALL FIELD INSPECTIONS MUST BE REQUESTED BY THE APPLICANT. INSPECTIONS MUST BE CONDUCTED AS FOLLOWS:

TREE SAVE PLANS AND FOREST CONSERVATION PLANS WITHOUT PLANTING REQUIREMENTS

- 1. AFTER THE LIMITS OF DISTURBANCE HAVE BEEN STAKED AND FLAGGED, BUT BEFORE ANY CLEARING OR GRADING BEGINS 2. AFTER NECESSARY STRESS REDUCTION MEASURES HAVE BEEN COMPLETED AND PROTECTION MEASURES HAVE BEEN INSTALLED, BUT
- BEFORE ANY CLEARING AND GRADING BEGIN. 3. AFTER COMPLETION OF ALL CONSTRUCTION ACTIVITIES, BUT BEFORE REMOVAL OF TREE PROTECTION FENCING, TO DETERMINE THE LEVEL OF COMPLIANCE WITH THE PROVISION OF THE FOREST CONSERVATION PLAN.
- ADDITIONAL REQUIREMENTS FOR PLANS WITH PLANTING REQUIREMENTS
- 4. BEFORE THE START OF ANY REQUIRED REFORESTATION AND AFFORESTATION PLANTING.
- 5. AFTER THE REQUIRED REFORESTATION AND AFFORESTATION PLANTING HAS BEEN COMPLETED TO VERIFY THAT THE PLANTING IS ACCEPTABLE AND PRIOR TO THE START THE MAINTENANCE PERIOD.
- 6. AT THE END OF THE MAINTENANCE PERIOD TO DETERMINE THE LEVEL OF COMPLIANCE WITH THE PROVISIONS OF THE PLANTING PLAN, RELEASE OF THE PERFORMANCE BOND.

RE/AFFORESTATION PLANTING CONSIDERATIONS (ADDITIONAL NOTES)

PARCEL P330 REFORESTATION AREA INVASIVE CONTROL TO OCCUR PER NOTES ON SHEET FCP-4

PRE-PLANTING CONSIDERATIONS

- A. IN AREAS WITH SUBSTANTIAL GROWTH OF INVASIVE GROUND COVER SPECIES. MEASURES SHALL BE TAKEN TO REMOVE AND CONTROL INVASIVES. THE INFESTED AREAS SHOULD BE MOWN PRIOR TO COMMENCEMENT OF PLANTING. NECESSARY WEED CONTROL MEASURES SHOULD BE DETERMINED DURING THE PRE-PLANTING INSPECTION, INCLUDING, BUT NOT LIMITED TO, MULCHING, PERIODIC MOWING AROUND THE REFORESTATION PLANTINGS, AND FABRIC COVERINGS. THE USE OF CHEMICAL WEED CONTROLS WILL BE LIMITED TO EXTREME CASES AND ONLY WITH PRIOR WRITTEN APPROVAL BY MNCPPC STAFF. WHERE PERIODIC MOWING WILL OCCUR AS A WEED CONTROL MEASURE, THE TYPICAL TREE PLANTING DISTRIBUTION PATTERN SHOULD BE MODIFIED SO AS TO ALLOW ACCESS BY MOWING EQUIPMENT WITHOUT DAMAGE TO PLANTINGS.
- AGRICULTURAL USE HAS OCCURRED IN THE PAST, TEST PITS WILL BE DUG IN AREAS OF UNDISTURBED SOIL TO DETERMINE IF A FRAGIPAN LAYER IS PRESENT. IF FRAGIPAN IS PRESENT, IT SHOULD BE PIERCED BY AUGURING AND PLANTING HOLES SHOULD BE DUG TO TWICE THE NORMAL DIAMETER FOR THE MATERIAL PLANTED.

B. A SOILS ANALYSIS WILL BE CONDUCTED PRIOR TO COMMENCEMENT OF REFORESTATION. ON LAND WHERE EXTENSIVE

C. SOILS SHOULD BE TREATED BY INCORPORATING NATURAL MULCH WITHIN THE TOP 12 INCHES, OR AMENDMENTS AS DETERMINED BY THE SOILS ANALYSIS. NATURAL AMENDMENTS, SUCH AS ORGANIC MULCH OR LEAF MOLD COMPOST ARE PREFERRED.

D. IF FILL MATERIAL IS USED AT THE PLANTING SITE, IT SHOULD BE CLEAN FILL WITH 12 INCHES OF NATIVE SOIL. STOCKPILING OF

NATIVE TOP SOILS MUST BE DONE IN SUCH A WAY THAT THE HEIGHT OF THE PILE DOES NOT DAMAGE THE SEED BANK.

PLANT MATERIAL STORAGE

A. IT IS RECOMMENDED THAT PLANTING OCCUR WITHIN 24 HOURS OF DELIVERY TO THE SITE. PLANT MATERIALS WHICH ARE LEFT UNPLANTED FOR MORE THAN 24 HOURS SHOULD BE PROTECTED FROM DIRECT SUN AND WEATHER AND KEPT MOIST. NURSERY STOCK SHOULD NOT BE LEFT UNPLANTED FOR MORE THAN TWO (2) WEEKS.

ON-SITE INSPECTION

A. PRIOR TO PLANTING, PLANTING STOCK SHOULD BE INSPECTED. PLANTS NOT CONFORMING TO STANDARD NURSERYMAN SPECIFICATIONS FOR SIZE, FORM, VIGOR, ROOTS, TRUNK WOUNDS, INSECTS, AND DISEASE SHOULD BE REPLACED.

PLANTING SPECIFICATIONS

- A. CONTAINER GROWN STOCK: SUCCESSFUL PLANTING OF CONTAINER GROWN STOCK REQUIRES CAREFUL SITE PREPARATION AND INSPECTION OF THE PLANT MATERIAL ROOT SYSTEM. CAUTION IS RECOMMENDED WHEN SELECTING PLANTS GROWN IN A SOILS MEDIUM DIFFERING FROM THAT OF THE PLANTING SITE. THE PLANT SHOULD BE REMOVED FROM THE CONTAINER AND THE ROOTS GENTLY LOOSENED FROM THE SOILS. IF THE ROOTS ENCIRCLE THE ROOT BALL, SUBSTITUTION IS STRONGLY RECOMMENDED. J-SHAPED OR KINKED ROOT SYSTEMS SHOULD ALSO BE NOTED, AND SUBSTITUTED IF NECESSARY. ROOTS MAY NOT BE TRIMMED ON-SITE, DUE TO THE INCREASED CHANCES OF SOIL BORNE DISEASES. THE PLANTING FIELD SHOULD BE PREPARED AS SPECIFIED. NATIVE STOCKPILED SOILS SHOULD BE USED TO BACKFILL PLANTING FIELD. RAKE SOILS EVENLY OVER THE PLANTING FIELD AND COVER WITH 2 TO 4 INCHES OF MULCH.
- B. BALLED AND BURLAPPED TREES: BALLED AND BURLAPPED TREES MUST BE HANDLED WITH CARE WHILE PLANTING. TREES SHOULD NOT BE PICKED UP BY THE TRUNK OR DROPPED. AS BOTH PRACTICES WILL TEND TO SEPARATE THE TRUNK FROM THE ROOT BALL PRIOR TO PLANTING, ROOT BALLS SHOULD BE KEPT MOIST.
- C. PLANTING FIELDS SHOULD BE CREATED EQUAL TO 2.5 TIMES THE DIAMETER OF THE ROOT BALL EXCEPT WHEN PLANTING IN CLOSE PROXIMITY TO EXISTING TREES/VEGETATION. WHEN PLANTING IN CLOSE PROXIMITY TO EXISTING TREE/VEGETATION, THE SIZE AND LOCATION OF PLANTING PITS FOR PROPOSED PLANT MATERIAL SHALL BE MINIMIZED AND FIELD ADJUSTED TO PROTECT AND PRESERVE THE ROOT SYSTEMS OF ADJACENT TREES/PLANTS TO BE SAVED. USE WATERING TO SETTLE SOIL BACKFILLED AROUND TREES. STOCKPILED NATIVE TOP SOILS, IF AVAILABLE, SHOULD BE USED TO BACKFILL THE PLANTING FIELD. AMENDMENTS ARE NOT RECOMMENDED IN THE PLANTING FIELD. AS STUDIES HAVE SHOWN THAT ROOTS WILL BE ENCOURAGED TO STAY WITHIN THE AMENDED SOILS. SOILS SHOULD BE RAKED EVENLY OVER THE PLANTING FIELD AND COVERED WITH 2 TO 4 INCHES OF MULCH.
- D. STAKING OF TREES IS NOT RECOMMENDED EXCEPT IN AREAS OF HIGH WINDS. MOVEMENT IS NECESSARY TO STRENGTHEN THE TRUNK OF THE PLANTED TREE. IF STAKES ARE USED, THEY SHOULD BE REMOVED AFTER THE FIRST GROWING SEASON. WRAPPING IS ALSO NOT RECOMMENDED DUE TO THE INCREASED OPPORTUNITIES FOR INSECT INFESTATION AND DISEASE.

POST-PLANTING CONSIDERATIONS

- A. SOIL STABILIZATION: FOR AREAS OF LARGE-SCALE DISTURBANCE, SOILS MUST BE STABILIZED USING A NON-TURF-BUILDING GROUND COVER OR ENGINEERED FABRIC.
- B. PROTECTIVE DEVICES: TO PREVENT DAMAGE OF PLANTED AREAS, ALL REFORESTATION AND AFFORESTATION SITES MUST BE POSTED WITH APPROPRIATE SIGNS AND FENCED IN ACCORDANCE WITH THIS PLAN. CONSTRUCTION EQUIPMENT SHALL BE PROHIBITED IN THESE AREAS.

RE/AFFORESTATION MAINTENANCE & MANAGEMENT PLAN (ADDITIONAL NOTES)

- YEAR 1: AREA IS PLANTED ACCORDING TO APPROVED PLAN
- SURVIVAL CHECK 3 TIMES (MARCH-APRIL), (JULY-AUGUST), (OCTOBER-NOVEMBER)
- CONTROL OF UNDESIRABLE VEGETATION AS NEEDED
- YEAR 2:REINFORCEMENT PLANTING IF NEEDED SURVIVAL CHECK ONCE ANNUALLY (MAY-SEPTEMBER)

FERTILIZATION OR WATERING DURING YEAR 1 WILL BE DONE ON AN AS NEEDED BASIS. CONDITION CHECK SHEETS SHOULD BE PROVIDED TO THE CLIENT AFTER EACH VISIT. A SURVIVAL RATE OF 100% IS REQUIRED AFTER 2 (TWO) YEARS. SPECIAL RETURN OPERATIONS OR RECOMMENDATIONS WILL BE CONDUCTED ON AN AS NEEDED BASIS.

OFF-SITE (MNCPPC PROPERTY)

WORK ON PARK LAND IS SUBJECT TO THE TERMS OF THE PARK PERMIT AND APPROVAL OF PARKS INSPECTION STAFF.

- YEAR 1: AREA IS PLANTED ACCORDING TO APPROVED PLAN
- SURVIVAL CHECK 3 TIMES (MARCH-APRIL), (JULY-AUGUST), (OCTOBER-NOVEMBER)
- CONTROL OF UNDESIRABLE VEGETATION AS NEEDED
- YEAR 2 THROUGH 5: REINFORCEMENT PLANTING IF NEEDED SURVIVAL CHECK ONCE ANNUALLY (MAY-SEPTEMBER)
- FERTILIZATION OR WATERING DURING YEAR 1 WILL BE DONE ON AN AS NEEDED BASIS. CONDITION CHECK SHEETS SHOULD BE PROVIDED TO THE CLIENT AFTER EACH VISIT. A SURVIVAL RATE OF 85% IS REQUIRED AFTER 5 (FIVE) YEARS. IF ADEQUATE NATURAL REGENERATION HAS OCCURRED, IT MAY BE INCLUDED IN THE FINAL SURVIVAL TALLY. SPECIAL RETURN OPERATIONS OR RECOMMENDATIONS WILL BE CONDUCTED ON AN AS NEEDED BASIS. PERIMETER FENCING AND SIGNAGE WILL BE REMOVED AFTER YEAR 5 BASED ON THE DATE PLANTED.

AFFORESTATION CREDIT TABLE

BOTANICAL	COMMON	SUBSTITUTIONS		APPROX.	AREAS AND ACREAGES							TOTAL
NAME	NAME	BOTANICAL NAME	COMMON NAME	%	Area #1	Area #2	Area #3	Area #4	Area #5	Area #6	Area #7	
UPLAND TREES					0.53	0.29	0.78	0.31	0.16	0.44	0.35	
Quercus alba	White Oak	Quercus phellos	Willow Oak	25%	13	7	20	8	4	11	9	71
Quercus rubra	Red Oak	Prunus serotina	Black Cherry	25%	13	7	20	8	4	11	9	71
Acer rubrum	Red Maple	Quercus primus	Chestnut Oak	15%	8	4	12	5	2	7	5	43
Cornus florida	Dogwood	Cercis canadensis	Eastern Redbud	15%	8	4	12	5	2	7	5	43
Juniperus virginiana	Eastern Red Cedar			10%	5	3	8	3	2	4	4	29
Pinus strobus	White Pine	Pinus virginiana	Virginia Pine	10%	5	3	8	3	2	4	4	29
				100%	53	29	78	31	16	44	35	285

FFORESTATION AREA	AREA (ACRES)				
1	0.53				
2	0.29				
3	0.78				
4	0.31				
5	0.16				
6	0.44				
7	0.35				
OTAL:	2.86				
FOUIRED:	2.60				

2" - 2.5" CALIPER B&B (or 5 to 7 GAL. CONT.) TREE SIZE: 100 TREES PER ACRE TREE PLANTING RATE:

APPROX. 15' x 15' o.c.

33.3% 6 3 9 3 Viburnum acerifolium Mapleleaf Viburnum Viburnum prunifolium |Blackhaw viburnum
 33.3%
 6
 3
 9
 3
 2
 5
 4
 31

 33.3%
 6
 3
 9
 3
 2
 5
 4
 31
 Hammamelis virginiana Witchhazel Spicebush Lindera benzoin Rhus aromatica Fragrant Sumac Rhus glabra **PLANTING RATE: 33 SHRUBS PER ACRE** 100% 17 9 26 10 5 15 12 94

SHRUB SIZE:

SHRUB PLANTING RATE: SHRUB SPACING:

LAYOUT: PFCP-2, Plotted By: chapman

1 to 3 GALLON 33 SHRUBS PER ACRE RANDOM

"FOR LOCATION OF UTILITIES CALL 8-1-1 or 1-800-257-7777 OR LOG ON TO www.call811.com or http://www.missutility.net 48 HOURS IN ADVANCE OF ANY WORK IN THIS VICINITY" The excavator must notify all public utility companies with underground facilities in the area of proposed excavation and have those facilities located by the utility companies prior to commencing excavation. The excavator is responsible for compliance with requirements of Chapter 36A of the Montgomery County Code.

EXISTING SIGNIFICANT & SPECIMEN TREES

BOTANICAL NAME

Pinus strobus

Pinus strobus

Pinus strobus

COMMON NAME

91 WHITE PINE

92 WHITE PINE

93 WHITE PINE

DBH RATING

FAIR

28 GOOD NO

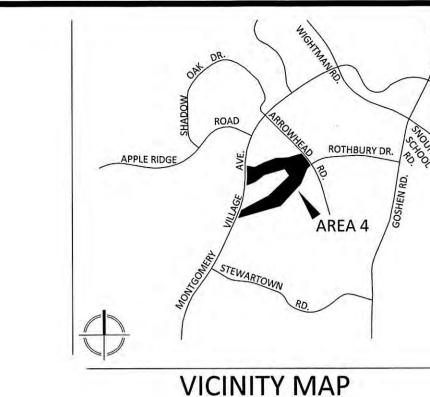
FAIR

NOTES

NO BROKEN BRANCHES

NO BRANCH DAMAGE

Pinus strobus	28	GOOD	NO	
The state of the s	20072			
Picea (ssp)	28.5	POOR	NO	EXCESSIVE PRUNING SIDE SHEERED BY UTILITY COMPA
Pinus strobus	34	POOR	YES	SPLIT LEADERS AND BRANCH DAMAGE
Quercus palustris	33	GOOD	YES	
Pinus strobus	25	GOOD	NO	
Pinus strobus	31	GOOD	YES	
Pinus strobus	26	GOOD	NO	
Pinus strobus	25	GOOD	NO	
Pinus strobus	25	GOOD	NO	
Pinus strobus	25	FAIR	NO	BRANCH DAMAGE
		GOOD	NO	
Pinus strobus	26			+
Pinus strobus	27	GOOD	NO	
Picea (ssp)	29	GOOD	NO	
Quercus palustris	34	FAIR	YES	BRANCH DAMAGE, TRUNK SPLITS AT 18FT
Pinus strobus	30	POOR	YES	MAJOR BRANCHES DAMAGED, LEADER DEAD
Pinus strobus	32	POOR	YES	DAMAGED LEADER AND BRANCHES
Pinus strobus	36	FAIR	YES	SOME BRANCHES DAMAGED
Pinus strobus	28	POOR	NO	MAJOR BRANCHES DAMAGED
Pinus strobus	25	GOOD	NO	
Pinus strobus	29	GOOD	NO	
Pinus strobus	24	FAIR	NO	SOME BRANCHES DAMAGED
Pinus strobus	.26	POOR	NO	EXCESSIVE PRUNING SIDE SHEERED BY UTILITY COMPA
Pinus strobus	26	GOOD	NO	
Pinus strobus	26	FAIR	NO	BROKEN BRANCHES
Pinus strobus	29	GOOD	NO	
Pinus strobus	29	FAIR	NO	BROKEN BRANCHES
Picea (ssp)	25	FAIR	NO	3 LEADERS - SPLITS AT 15FT
Pinus strobus	26	FAIR	NO	BROKEN BRANCHES
Pinus strobus	30	GOOD	YES	
Pinus strobus	29	POOR	NO	VISABLE ROT - DEAD
Pinus strobus	26	FAIR	NO	BROKEN BRANCHES
Pinus strobus	26	FAIR	NO	BROKEN BRANCHES
Pinus strobus	30	GOOD	YES	
Pinus strobus	27	GOOD	NO	
Pinus strobus	25	FAIR	NO	DOUBLE AT 2FT
Pinus strobus	26	FAIR	NO	BROKEN BRANCHES
Pinus strobus	29	FAIR	NO	BROKEN BRANCHES
Pinus strobus	33	FAIR	YES	BROKEN BRANCHES
Pinus strobus	28	POOR	NO	MAJOR BROKEN BRANCHES
Pinus strobus	27	GOOD	NO	
Pinus strobus	27	FAIR	NO	BROKEN BRANCHES
Pinus strobus	28	GOOD	NO	
Pinus strobus	29	GOOD	NO	
Pinus strobus	28	FAIR	NO	SPLIT LEADER
Pinus strobus	36	FAIR	YES	BROKEN BRANCHES - SPLIT LEADER
Pinus strobus	24	GOOD	NO	
Pinus strobus	26	FAIR	NO	BROKEN BRANCHES
Pinus strobus	34	FAIR	YES	LIGHTING DAMAGE TO BRANCHES
MORE Platanus occidentalis	50	POOR	YES	MAJOR BROKEN BRANCHES
Pinus strobus	30	GOOD	YES	
Pinus strobus	31	GOOD	YES	
Pinus strobus	25	FAIR	NO	DOUBLE AT 4FT
Pinus strobus	25	GOOD	NO	
Pinus strobus	26	FAIR	NO	BROKEN BRANCHES
Pinus strobus	32	GOOD	YES	
Pinus strobus	30	FAIR	YES	SPLIT LEADER
Pinus strobus	34	POOR	YES	DAMAGED LEADER AND BRANCHES
Pinus strobus	30	FAIR	YES	BROKEN BRANCHES
Pinus strobus	26	FAIR	NO	BROKEN BRANCHES
Quercus palustris	31	POOR	YES	MAJOR DAMAGED BRANCHES AND LEADER
Pinus strobus	25	GOOD	NO	
Pinus strobus	28	GOOD	NO	
			12/4/3	
Pinus strobus	31	GOOD	YES	
Picea (ssp)	27	GOOD	NO	
Picea (ssp)	28	GOOD	NO	
Picea (ssp)	26	GOOD	NO	
Picea (ssp)	25	GOOD	NO	
Picea (ssp)	28	GOOD	NO	
Pinus strobus	24	FAIR	NO	
Pinus strobus	25	POOR	NO	MAJOR DAMAGED BRANCHES AND LEADER
Pinus strobus	25	POOR	NO	MAJOR DAMAGED BRANCHES AND LEADER
				THE SOUR DIVINGED DIVINGED AND LEADER
Pinus strobus Pinus strobus	29 32	POOR	NO YES	2 LEADER @25FT - BROKEN BRANCHES
Pinus strobus Pinus strobus	29	FAIR	NO	BROKEN LEADER
	29	FAIR	NO	LOPSIDED CROWN
Pinus strobus	25	LAIK	I NO	COLOTOCO CHOWIN
Quercus palustris	24.5	FAIR	NO	DEAD BRANCHES
Prunus serotina	24	FAIR	NO	BROKEN BRANCHES
Pinus strobus	24.5	GOOD	NO	
Pinus strobus	25	GOOD	NO	
Pinus strobus	24	GOOD	NO	
Acer rubrum	44	GOOD	YES	
	Prunus serotina Pinus strobus Pinus strobus Pinus strobus	Prunus serotina 24 Pinus strobus 24.5 Pinus strobus 25 Pinus strobus 24	Prunus serotina24FAIRPinus strobus24.5GOODPinus strobus25GOODPinus strobus24GOODAcer rubrum44GOOD	Prunus serotina24FAIRNOPinus strobus24.5GOODNOPinus strobus25GOODNOPinus strobus24GOODNO



SCALE: 1" = 2000'

NET TRACT AREA 17.34 A. Total tract area 0.00 B. Land dedication acres (parks, county facility, etc. 0.00 C. Land dedication for roads or utilities (not being constructed by this plan) 0.00 D. Area to remain in commercial agricultural production/use 0.00 E. Other deductions (specify) 17.34 F. Net Tract Area =

FOREST CONSERVATION WORKSHEET

	Input the num limit to only o			W. C. S.			
	ARA	MDR	IDA	HDR	MPD	CIA	
	0	0	0	0	1	. 0	
G. Afforestati	on Threshold				15%	x F =	2.
H. Conservati	on Threshold				20%	x F =	3
EXISTING FO	REST COVER:						
I. Existing for	est cover =						0.
J. Area of fore	est above affores	tation thres	hold =				0.
K. Area of for	est above conse	ervation thres	shold =				0.
BREAK EVE	N POINT:						
L. Forest rete	ention above thre	shold with r	no mitigatio	on =			0
M. Clearing p	ermitted without	mitigation	=				0
PROPOSED	FOREST CLEAR	RING:					
N. Total area	of forest to be c	leared =					0
O. Total area	of forest to be re	etained =					0
PLANTING RE	EQUIREMENTS						
P. Reforestat	ion for clearing a	above conse	rvation thre	eshold =			0
Q. Reforestat	tion for clearing l	below conse	ervation thre	eshold =			0
R. Credit for I	retention above o	conservation	threshold	=			0
S. Total refor	estation required	d =					0
T. Total affore	estation required	=					2
U. Credit for I	andscaping (ma	y not excee	d 20% of '	'S") =			0
V. Total refor	estation and affo	restation re	quired =				2

FOREST DATA TABLE

ON-SITE			
17.34			
0.00			
0.00			
0.00			
0.00			
0.00			
0.00			
HDR: 15% / 20%			
Retained: 0.00			
Cleared: 0.00			
Planted: 0.00			
Retained: 0.00			
Cleared: 0.00			
Planted: 0.00			
Retained: 0.00			
Cleared: 0.00			
Planted: 0.00			
Retained: 0.00			
Cleared: 0.00			
Planted: 0.00			
Linear Feet: 0'			
Average Width: 0'			

SCALE: 1" = 60'

DEVELOPER'S CERTIFICATE The undersigned agrees to execute all the features of the DPA/FZP Approval No. ______, including Approval Conditions, Development Program, and Certified Site Plan. Developer's Name: USL2 MR Montgomery Village Business Trust Contact Person: Russell Hines

Address:

Signature:

Phone:

20251 CENTURY BOULEVARD SUITE #400 GERMANTOWN, MARYLAND 20874 PHONE: (301) 916-4100 FAX: (301) 916-2262

GERMANTOWN, MD. MCLEAN, VA PREPARED FOR:

USL2 MR MONTGOMERY VILLAGE **BUSINESS TRUST** c/o MONUMENT REALTY 1700 K Street, NW, Suite 600, Washington, DC 20006 202.777.2010 **RUSSELL HINES**

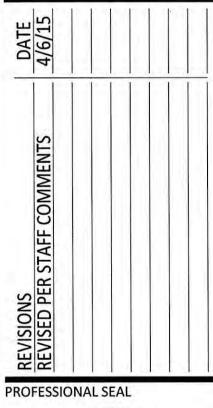
DESIGN CONSULTANTS

TORTI GALLAS AND PARTNERS, INC 1300 Spring Street, Suite 400 Silver Spring, Maryland 20910 301.588.4800 ERIK J. AULESTIA

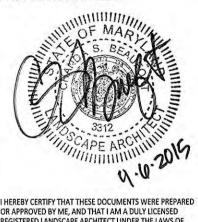
> ATTORNEY BALLARD SPAHR LLP 4800 Montgomery Lane Seventh Floor Bethesda, MD 20814-3401 301.664.6254 ERICA A. LEATHAM

TRAFFIC ENGINEER **WELLS + ASSOCIATES** 8730 Georgia Avenue, Suite 200 Silver Spring, MD 20910 301.448.1333 **KEVIN BERGER**

CIVIL ENGINEER VIKA MARYLAND, LLC 20251 CENTURY BOULEVARD SUITE 400 **GERMANTOWN MD, 20874** 301.916.4100 JOHN CLAPSADDLE



0.00



THE STATE OF MARYLAND. CHANDA BEAUFORT LICENSE No. 3312 EXPIRATION DATE: SEPT. 7, 2016 **BLOOM MV**

9TH ELECTION DISTRICT MONTGOMERY COUNTY, MARYLAND WSSC GRID: 227NW09

AREA IV

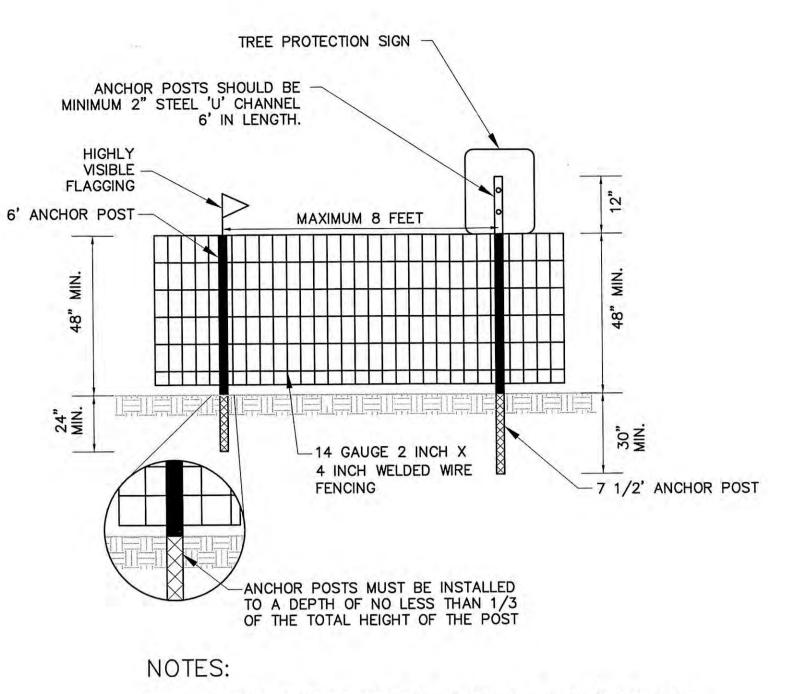
DPA# 15-01

TAX MAP: FU342

NOTES AND TABLES

DRAWN BY: ____JDC DESIGNED BY: CSB DATE ISSUED: <u>04/06/2015</u>

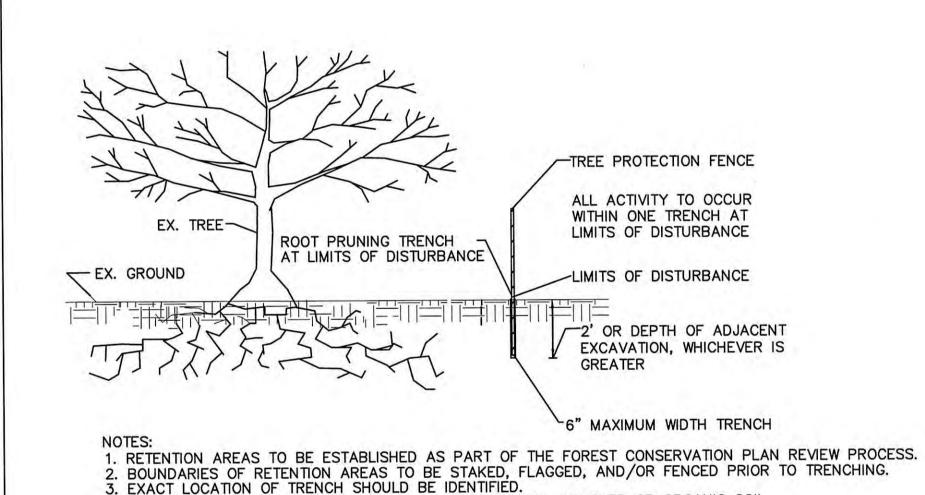
SHEET PFCP-2



- 1. THE BOUNDARIES OF THE LIMITS OF DISTURBANCE SHOULD BE STAKED AND FLAGGED PRIOR TO ERECTING THE PROTECTIVE DEVICE. 2. AVOID DAMAGE TO CRITICAL ROOT ZONES OF TREES. ANCHOR POSTS SHOULD BE PLACED TO AVOID SEVERING OR DAMAGING LARGE TREE
- 3. FENCING MATERIAL SHOULD BE FASTENED SECURELY TO THE ANCHOR
- POSTS WITH FENCE WIRE. 4. FENCE SIGNS, AND THEREFORE, THE TALLER 7 1/2' POSTS, MUST BE PLACED A MINIMUM OF 50' APART AND AT FENCE CORNERS. CONDITIONS ON SITE AFFECTING VISIBILITY MAY WARRANT PLACING SIGNS CLOSER OR FURTHER APART. ATTACHING SIGNS TO TREES IS PROHIBITED. 5. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

WELDED WIRE TREE PROTECTION FENCE

NOT TO SCALE



ROOT PRUNING DETAIL

NOT TO SCALE

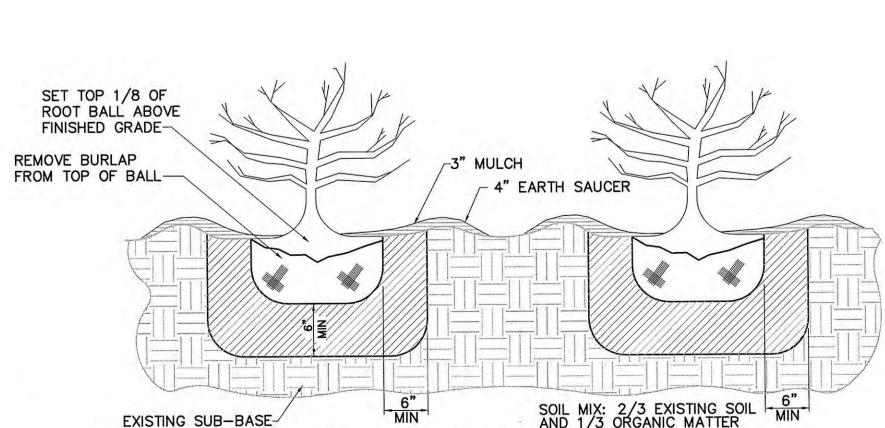
CERTIFIED ARBORIST LICENSED TO WORK IN THE STATE OF MARYLAND).

TRENCH SHOULD BE IMMEDIATELY BACKFILLED WITH SOIL REMOVED OR ORGANIC SOIL

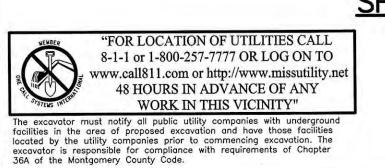
5. ROOTS SHOULD BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE EQUIPMENT.

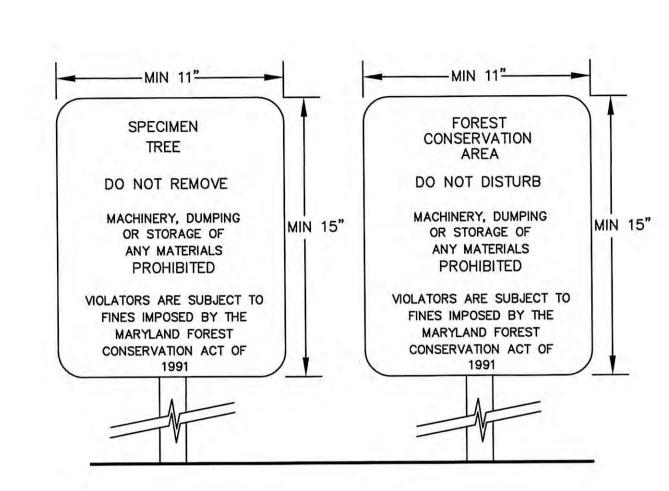
7. AREAS OF SHALLOW ROOT PRUNING MAY BE SPECIFIED DURING THE PRE-CONSTRUCTION MEETING.

6. ALL ROOT PRUNING MUST BE PERFORMED BY A MARYLAND LICENSED TREE CARE EXPERT (OR AN ISA



SHRUB PLANTING DETAIL

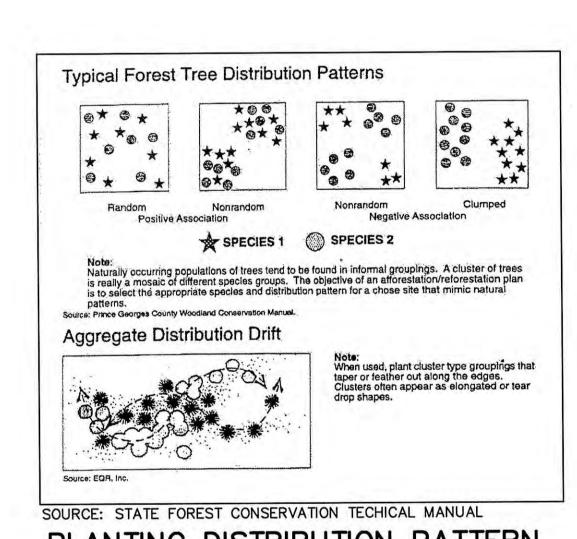




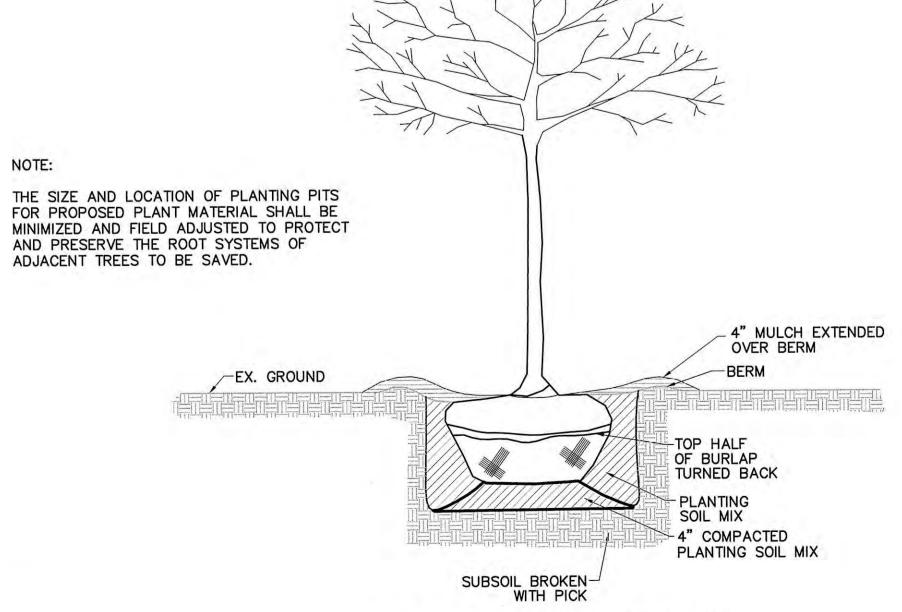
1. BOTTOM OF SIGNS TO BE HIGHER THAN TOP OF TREE PROTECTION FENCE.
2. SIGNS TO BE PLACED APPROXIMATELY 50' APART. CONDITIONS ON SITE AFFECTING VISIBILITY MAY WARRANT PLACING SIGNS CLOSER OR FARTHER APART.
3. ATTACHMENT OF SIGNS TO TREES IS PROHIBITED.

SOURCE: ADAPTED FROM FOREST CONSERVATION MANUAL, 1991 FIGURE D-4

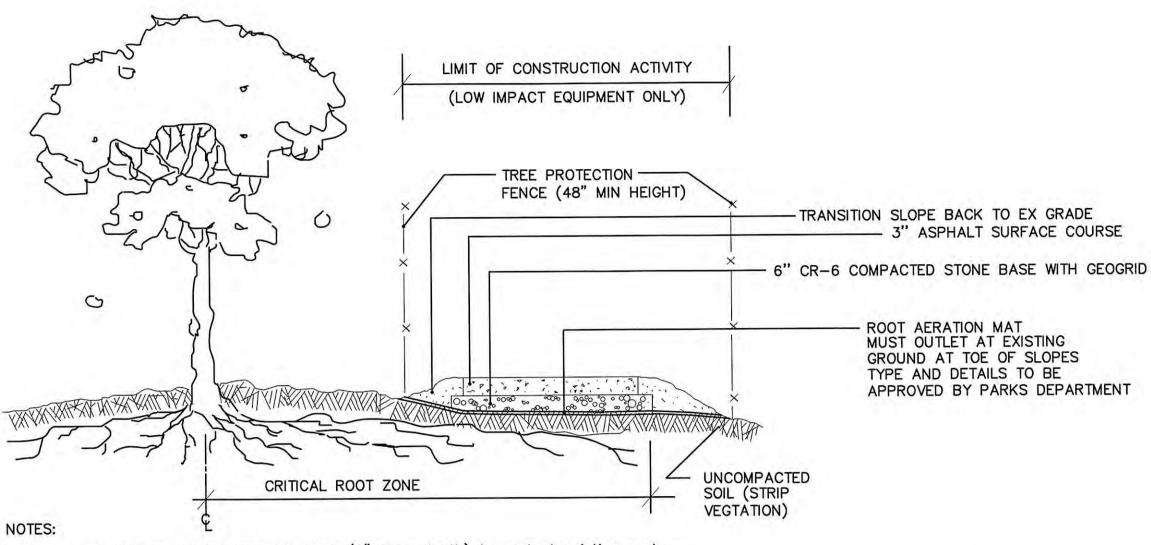
TREE PROTECTION CONSTRUCTION SIGNS NOT TO SCALE



PLANTING DISTRIBUTION PATTERN NOT TO SCALE



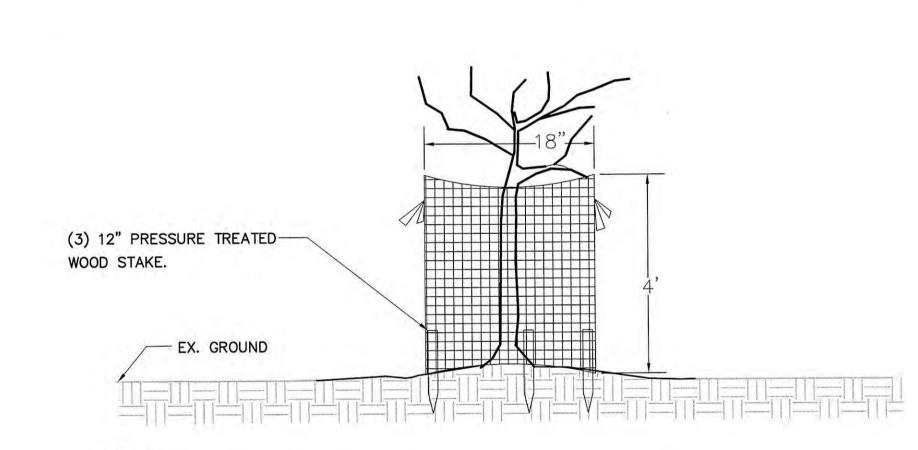
TREE PLANTING DETAIL NOT TO SCALE



1. Strip vegetation and limit bed preparation (2" max. depth) to protect existing roots.

- 2. Extreme care of existing trees around roots must be used during construction. Only low-impact construction equipment (smaller machines with rubber tracks) are permitted within critical root zone.
- 3. Root mat shall be an approved triplanar geonet (ASTM D4439) and geogrid shall be Tensar Geo-Grid BX-4100, or equal.
- 4. Field location of work shall be determined at pre—construction meeting in coordination with the required attendees; which include (among others) the Planning department inspector, Parks department inspector, the builder's tree care professional, and the DPS sediment control inspector.
- 5. Contractor shall retain an International Society of Arborculture Certified Arborist to inspect and certify installation for tree preservation.
- 6. No equipment shall traverse the area until matting and/or suitable cover has been placed.

ABOVE GRADE AT TRAIL (ROOT AERATION MATTING) DETAIL NOT TO SCALE

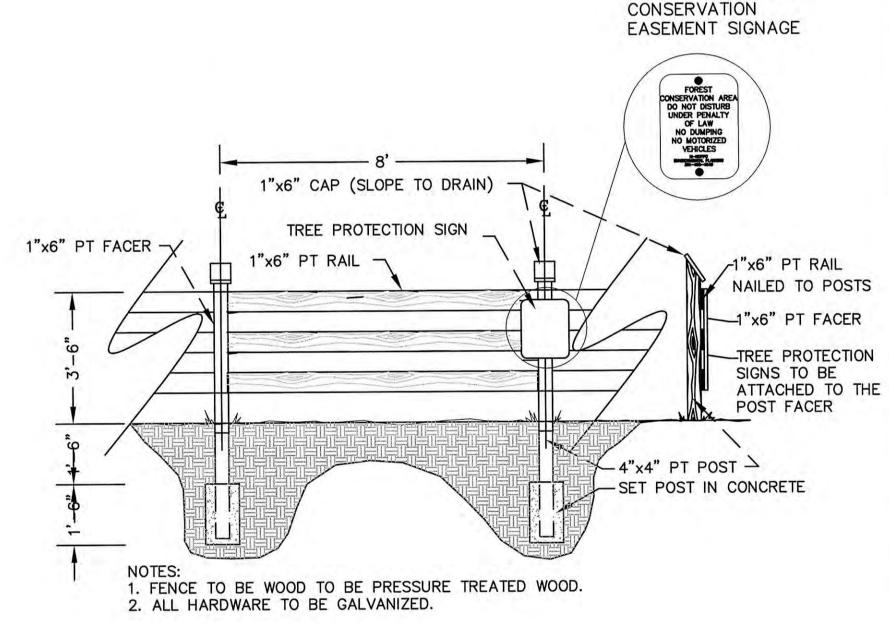


1) USE HIGH-TENSILE FIXED-KNOT FENCING.

3) ATTACH FENCE TO STAKE WITH MULTIPLE STAPLES

- 2) FORM FENCE INTO CIRCLE & SECURE W/ METAL TWISTS AND TURN CUT EDGES OF FENCING BACK TO PREVENT ANY SHARP EDGES.
- 4) ATTACH WHITE FLAG STRIPS TO FENCE.
- 5) FENCING TO REMAIN IN PLACE FOR ENTIRE TWO (2) YEAR MAINTENANCE PERIOD
- 6) ALTERNATE MEASURES OF DEER PROTECTION MAY BE APPROVED BY THE PLANNING DEPARTMENT FOREST CONSERVATION INSPECTOR.

DEER PROTECTION FENCING DETAIL NOT TO SCALE

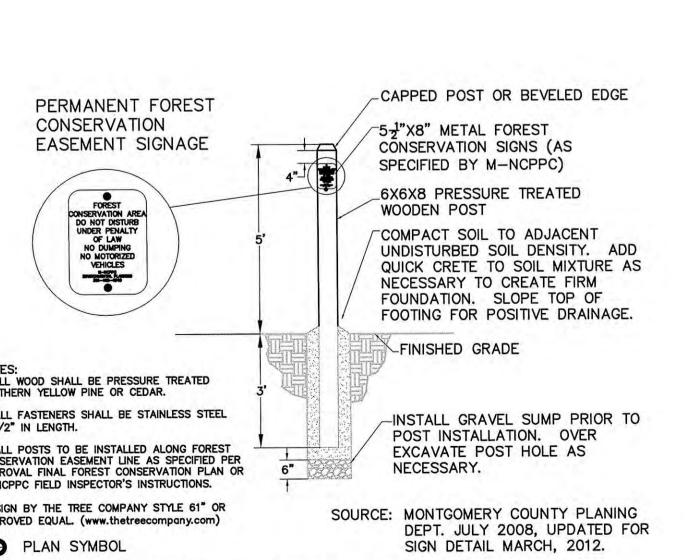


SPLIT RAIL FENCE WITH TREE PROTECTION SIGN

NOT TO SCALE

-CAPPED POST OR BEVELED EDGE PERMANENT FOREST CONSERVATION ~5√3"X8" METAL FOREST EASEMENT SIGNAGE CONSERVATION SIGNS (AS SPECIFIED BY M-NCPPC) 6X6X8 PRESSURE TREATED WOODEN POST COMPACT SOIL TO ADJACENT UNDISTURBED SOIL DENSITY. ADD QUICK CRETE TO SOIL MIXTURE AS NECESSARY TO CREATE FIRM FOUNDATION. SLOPE TOP OF FOOTING FOR POSITIVE DRAINAGE. FINISHED GRADE 1. ALL WOOD SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE OR CEDAR. 2. ALL FASTENERS SHALL BE STAINLESS STEEL 1-1/2" IN LENGTH. -INSTALL GRAVEL SUMP PRIOR TO POST INSTALLATION. OVER 3. ALL POSTS TO BE INSTALLED ALONG FOREST CONSERVATION EASEMENT LINE AS SPECIFIED PER APPROVAL FINAL FOREST CONSERVATION PLAN OR EXCAVATE POST HOLE AS NECESSARY. M-NCPPC FIELD INSPECTOR'S INSTRUCTIONS. 4. SIGN BY THE TREE COMPANY STYLE 61" OR SOURCE: MONTGOMERY COUNTY PLANING APPROVED EQUAL. (www.thetreecompany.com) DEPT. JULY 2008, UPDATED FOR SIGN DETAIL MARCH, 2012. PLAN SYMBOL

PERMANENT FOREST CONSERVATION EASEMENT BOUNDARY MARKERS NOT TO SCALE



DEVELOPER'S CERTIFICATE The undersigned agrees to execute all the features of the DPA/FZP Approval No. _______, including Approval Conditions, Development Program, and Certified Site Plan.

Developer's Name: USL2 MR Montgomery Village Business Trust 1700 K Street, NW, Suite 600, Washington, DC 20006

Signature

SHEET PFCP-3

20251 CENTURY BOULEVARD SUITE #400 GERMANTOWN, MARYLAND 20874 PHONE: (301) 916-4100 FAX: (301) 916-2262 GERMANTOWN, MD. MCLEAN, VA. PREPARED FOR: **USL2 MR** MONTGOMERY VILLAGE **BUSINESS TRUST** c/o MONUMENT REALTY

VIKA MARYLAND, LLC

1700 K Street, NW, Suite 600, Washington, DC 20006

RUSSELL HINES SCALE: 1" = 2000' **DESIGN CONSULTANTS**

AREA 4

VICINITY MAP

PERMANENT FOREST

TORTI GALLAS AND PARTNERS, INC 1300 Spring Street, Suite 400 Silver Spring, Maryland 20910 **ERIK J. AULESTIA**

202.777.2010

BALLARD SPAHR LLP 4800 Montgomery Lane Seventh Floor Bethesda, MD 20814-3401 301.664.6254 ERICA A. LEATHAM

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VIKA MARYLAND, LLC 20251 CENTURY BOULEVARD **GERMANTOWN MD, 20874** 301.916.4100 JOHN CLAPSADDLE

PROFESSIONAL SEAL



OR APPROVED BY ME, AND THAT I AM A DULY LICENSED REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

CHANDA BEAUFORT LICENSE No. 3312 EXPIRATION DATE: SEPT. 7, 2016

BLOOM MV AREA IV

9TH ELECTION DISTRICT MONTGOMERY COUNTY, MARYLAND WSSC GRID: 227NW09 TAX MAP: FU342

DPA# 15-01

DETAILS

DRAWN BY: JDC DESIGNED BY: ____CSB DATE ISSUED: <u>04/06/2015</u>

LAYOUT: PFCP-3, Plotted By: chapman