



SPECIMEN TREES

CRZ Impact	STATUS	#	COMMON NAME	SCIENTIFIC NAME	SIZE-DBH	CRZ RADIUS	COND.	NOTES
19.5%	Save	1	Red Maple	Acer rubrum	47.0'	70.5'	Good	Double-forked
0%	Save	2	American Sycamore	Platanus occidentalis	46.0'	69'	Excellent	Has lightning rod and rope sawing
0%	Save	3	American Sycamore	Platanus occidentalis	44.0'	66'	Excellent	Has lightning rod
0%	Remove	4	Black Locust	Robinia pseudacacia	40.0'	60'	Poor	Double forked at 8'. Fung. Center. Heavy broken cut limbs. Holes in trunk
23.8%	Save	5	White Oak	Quercus alba	30.0'	45'	Excellent	Offsite 3' from fence line
100%	Remove	6	Black Cherry	Prunus serotina	34.0'	51'	Poor	4-forks at 6'. North Fork, Dead. Heavy broken branches. West Fork, Dead. Fung. Significant Crown South to North side of tree due to forming a wire fence
100%	Remove	7	Mulberry Tree	Morus spp.	33.0'	49.5'	Fair	Lots of storm damage
100%	Remove	8	Chestnut Oak	Quercus montana	38.0'	57'	Good	Three 22" stems
18.8%	Save	9	Chestnut Oak	Quercus montana	33.0'	49.5'	Poor	Double-Forked, One Fork is dead
41.9%	Remove	10	Red Oak	Quercus rubra	38.0'	57'	Poor	Broken limb, severe, lightning scars, leaves all growth to field
59%	Remove	11	Red Oak	Quercus rubra	39.0'	58.5'	Good	Bulk of branches to field
65.3%	Remove	12	Black Cherry	Prunus serotina	33.0'	49.5'	Good	Line tree
0%	Save	13	Chestnut Oak	Quercus montana	41.0'	61.5'	Good	Double-forked
0%	Save	14	Chestnut Oak	Quercus montana	30.0'	45'	Excellent	
0%	Save	15	White Oak	Quercus alba	30.0'	45'	Good	Offsite
0%	Save	16	White Oak	Quercus alba	30.0'	45'	Good	Offsite
0%	Save	17	White Oak	Quercus alba	46.0'	69'	Poor	Offsite, Huge hole on North side

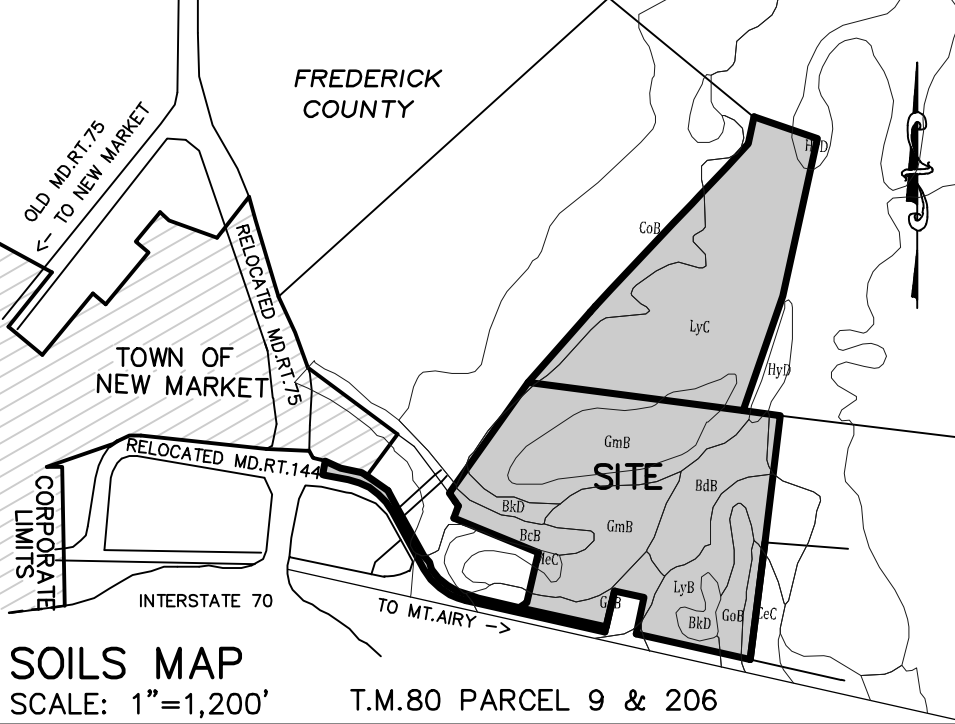
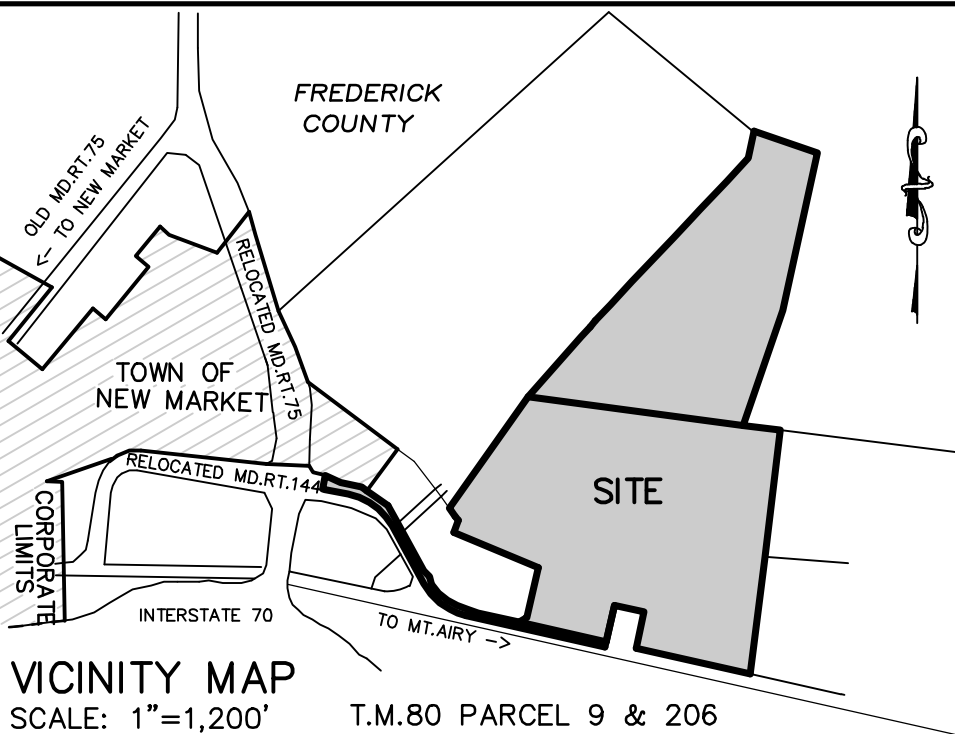
RETENTION			CLEARING			EX FOREST
R-1 =	12,541 SF	±0.29 AC.	C-1 =	2,924 SF	±0.07 AC.	
R-2 =	3,515 SF	0 SF	C-2 =	369,557 SF	±8.48 AC.	
R-3 =	257,051 SF	±5.90 AC.				
273,107 SF OR 6.27 AC			372,481 SF OR 8.55 AC			14.82 AC

UPLAND AFFORESTATION			WETLAND AFFORESTATION			TOTAL FRO PLANTINGS
UA-1 =	53,120 SF	±1.22 AC.	WA-1 =	30,766 SF	±0.71 AC.	
UA-2 =	44,611 SF	±1.02 AC.				
UA-3 =	41,659 SF	±0.96 AC.				
UA-4 =	15,888 SF	±0.36 AC.				
UA-5 =	63,736 SF	±1.46 AC.				
UA-6 =	23,884 SF	±0.55 AC.				
UA-7 =	15,905 SF	±0.37 AC.				
UA-8 =	106,226 SF	±2.44 AC.				
UA-9 =	33,199 SF	±0.76 AC.				
UA-10 =	16,604 SF	±0.38 AC.				
414,832 SF OR 9.52 AC			30,766 SF OR 0.71 AC			10.23 AC

FOREST CONSERVATION COMPLIANCE:
REFORESTATION REQUIRED: ±15.23 AC.
STREET TREE CANOPY CREDIT: ±5.00 AC. (308 STREET TREES X 707 SF)
PROPOSED WETLAND AFFORESTATION: ±0.71 AC.
PROPOSED UPLAND AFFORESTATION: ±9.52 AC.
TOTAL PLANTING PROVIDED: ±15.23 AC.
*NOTE: THE EXISTING FOREST FROM THE FSD IS 15.86 AC. THE DIFFERENCE IS THE EXISTING FOREST CONSERVATION EASEMENT ALONG THE EXISTING FOOD LION TO THE SOUTH-WEST OF THE SITE. (L.2295, F.174)

LEGEND

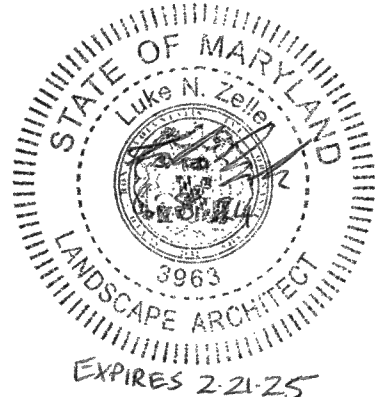
- SLOPES 15-25%
- SLOPES >25%
- EXISTING TREELINE
- SPECIMEN TREE
- EXISTING FOREST
- SOIL DELINEATION
- WETLANDS & 25' BUFFER
- STREAM
- EXISTING FOREST CONSERVATION EASEMENT L.2295 F.174
- LIMITS OF DISTURBANCE (LOD)
- FOREST RETENTION
- FOREST CLEARING
- AFFORESTATION
- CORPORATE LIMITS



SOIL TYPES	HSG	Wetsoil	Floodplain
BcB Balto-Glenville	C/D	Yes	No
BdB Benevola	C	No	No
BkD Brinklow-Blocktown	C	No	No
CeB Catoclin-Spoalsville	B	No	No
CeC Catoclin-Spoalsville	B	No	No
CoB Conestoga and Letort	B	No	No
GeB Glenelg	B	No	No
GmB Glenelg-Mt Airy	B	No	No
GoB Glenville	C/D	Yes	No
HyD Hyattstown-Linganore	D	No	No
LyB Linganore-Hyattstown	C	No	No
LyC Linganore-Hyattstown	C	No	No
MeC Mt Airy	C	No	No

- BASE NOTES:**
- NO TITLE REPORT WAS FURNISHED.
 - HORZ. DATUM: MD STATE PLANE, NAD 83/91. PER FREDERICK COUNTY MONUMENTS "MEADOW" AND "CHEVES AV."
 - VERT. DATUM: NAVD 88, PER SAME.
 - ADJOINING PROPERTY INFORMATION TAKEN FROM AVAILABLE TAX RECORDS.
 - IMPROVEMENTS SHOWN HEREON ARE POTOMAC AERIAL SURVEY SUPPLEMENTED WITH AVAILABLE IMPROVEMENT PLANS.
 - NO FLOODPLAIN ON SITE PER FEMA FIRM RATE MAPS #24021C0319E & 24021C0338E.
 - TOPOGRAPHY IS PROVIDED BY POTOMAC AERIAL SURVEYS.

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	279.00'	360.00'	44°24'15"
C2	337.94'	400.00'	48°24'25"
C3	349.07'	400.00'	50°00'00"



OWNER:
ENG-LAND ACRES
5620 DETRICK ROAD
MOUNT AIRY, MD 21701

OWNER:
TURNPIKE FARM LIMITED PARTNERSHIP
6640 FORD ROAD
FREDERICK, MD 21702

DEVELOPER:
DR ACQUISITIONS, LLC
7845 WORMANS MILL ROAD
FREDERICK, MD 21701

HARRIS SMARIGA
PLANNERS • ENGINEERS • SURVEYORS

125 S. CARROLL STREET
SUITE 100
FREDERICK, MARYLAND 21701

P. 301.662.4488
F. 301.662.4906
www.harris-smariga.com

PRELIMINARY FOREST CONSERVATION PLAN COVER SHEET ENGLAND WOODS

PROPERTY OF ENG-LAND ACRES, LLC
PER L.6958, F.673, RECORDED AT PB.82 P.194

PROPERTY OF TURNPIKE FARM LIMITED PARTNERSHIP
PER L.4264 F.341, RECORDED AT PB.29 P.144

LOCATED ON OLD NATIONAL PIKE & WELL SPRING WAY
NEW MARKET, MARYLAND
NEW MARKET ELECTION DISTRICT NO. 9
FREDERICK COUNTY, MARYLAND

SCALE:
1" = 200'

DRAWN
BY: LNZ

CHECKED
BY: SFZ

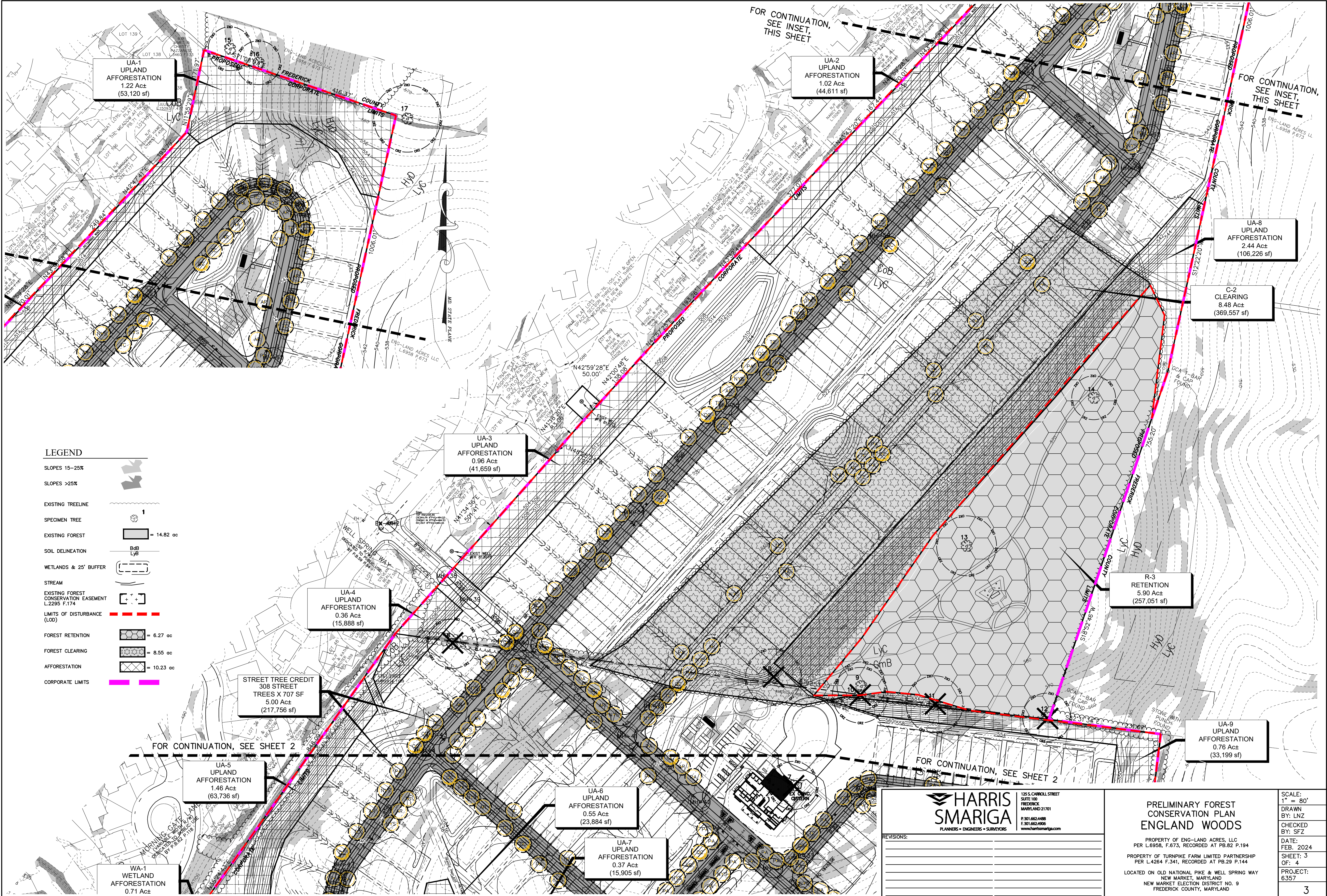
DATE:
FEB. 2024

SHEET: 1
OF: 4

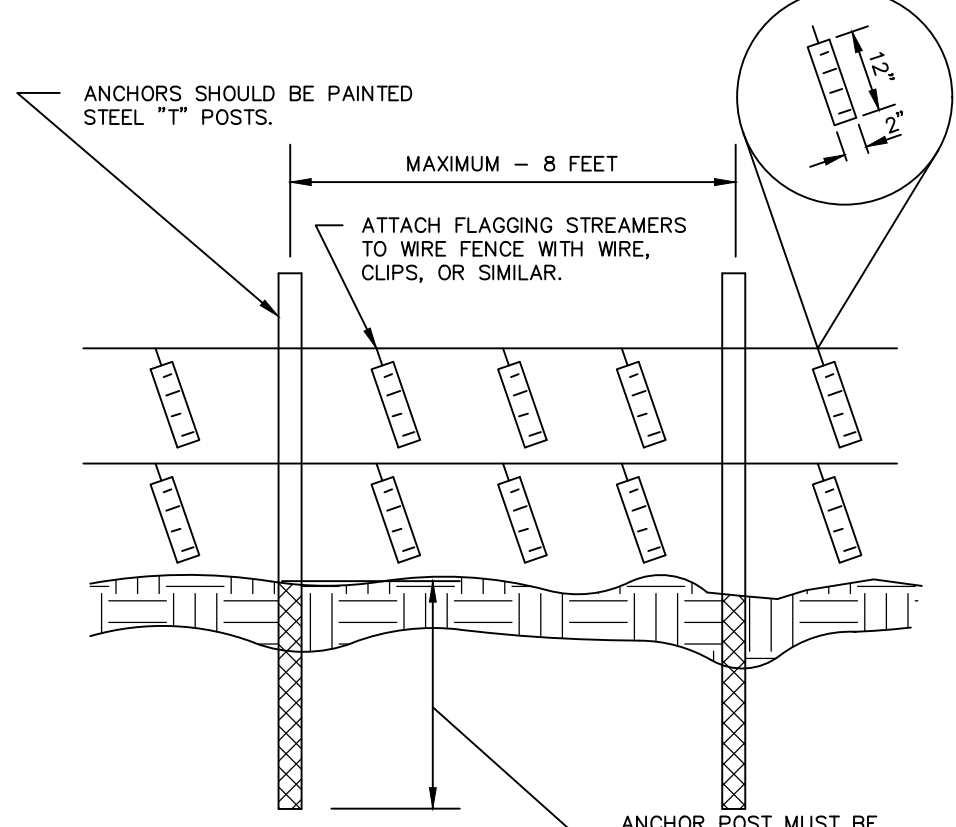
PROJECT:
6357

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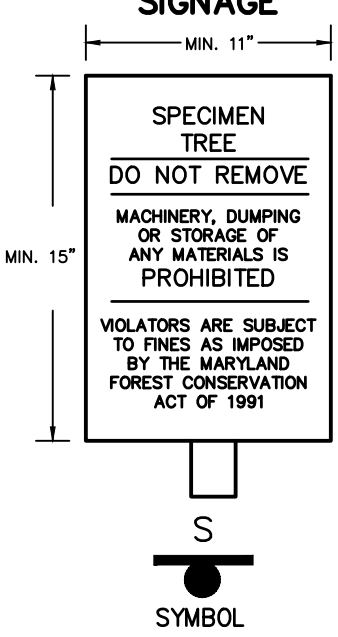
TWO STRAND WIRE FENCE



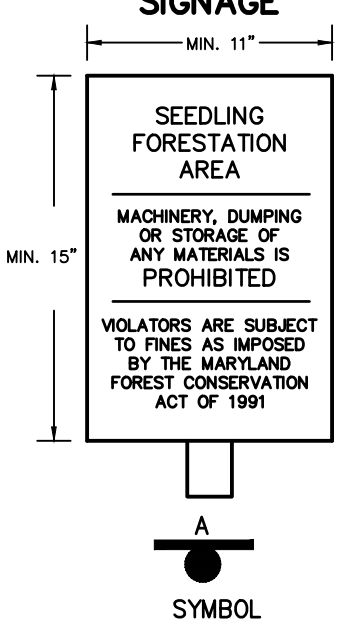
SYMBOL —

- FOREST PROTECTION DEVICE ONLY.
- BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
- AVOID ROOT DAMAGE WHEN PLACING ANCHOR POSTS.
- TERMINAL AND CORNER POSTS PLUS FIRST LINE POST MUST BE MINIMUM 4"x6" PRESSURE TREATED WOOD. ALL OTHER POSTS SHOULD BE PAINTED STEEL 1" POSTS.
- #9 GAUGE GALVANIZED SMOOTH WIRE SHOULD BE SECURELY ATTACHED TO POSTS.
- FENCING SHALL BE PROPERLY MAINTAINED FOR THE LONGER OF 3 YEARS OR UNTIL THE END USER OCCUPIES THE SITE AND CONSTRUCTION IS COMPLETE WHICHEVER IS GREATER.
- PROTECTIVE SIGNAGE IS REQUIRED AND SHOULD BE PLACED EVERY 100' O.C.

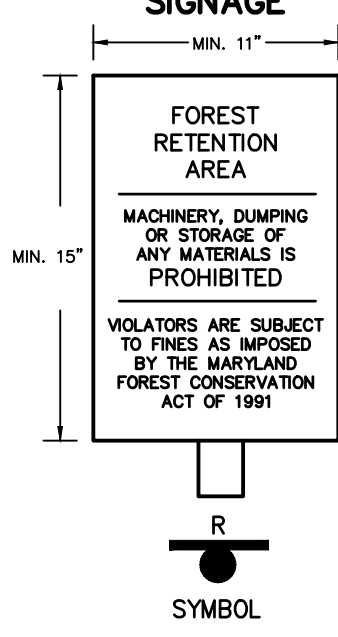
SPECIMEN TREE SIGNAGE



REFORESTATION SIGNAGE



FOREST PROTECTION SIGNAGE



SIGNAGE TO BE PLACED ON OR ADJACENT TO FENCING SIGNAGE SHALL BE PROPERLY MAINTAINED FOR THE LONGER OF 3 YEARS OR UNTIL THE END USER OCCUPIES THE SITE AND CONSTRUCTION IS COMPLETE WHICHEVER IS GREATER.

SIGNS MUST BE PLACED AT 50 FOOT INTERVALS, EXCEPT WHEN FENCING IS USED, IN WHICH CASE IT MAY BE SPACED AT 100 FT INTERVALS UNLESS OTHERWISE NOTED ON PLAN.

SUPPRESSION AND CONTROL OF INVASIVE, EXOTIC SPECIES AND VEGETATION

- In General:** Suppression efforts are aimed at the removal of invasive, exotic species ("target species"), which displace or prevent the establishment of native forests. The primary focus of this Final Forest Conservation Plan (FFCP) document is the suppression and control efforts of invasive and exotic species, as noted, primarily including but not exclusive to: Tree of Heaven (Ailanthus Altissima), Multiflora Rose (Rose Multiflora), and Japanese Honeysuckle Vine (Lonicera Japonica).
- Goal and Purpose:** Suppression efforts shall include the initial removal or treatment of the target species and the maintenance required to control re-growth. Implementation and choice of treatment and method shall be such that neither the invasive species nor the method of control adversely affects the establishment and survival of native species.
- Target species** are generally persistent with regard to eradication and control efforts. Therefore, the goal is to suppress the target species to allow the native species to form a dense canopy. The shade created by the dense canopy ideally will provide additional shade, which will manage the re-growth of the targeted species.
- Minimum Requirements:** A minimum of two applications or treatments shall be made during each one-year period of the Forest Improvement and Protection Agreement (FIPA).
- Frederick County Government Contacts:** Questions regarding the appropriateness or extent of control will be at the discretion of the Frederick County Environmental Compliance Section. The Environmental Compliance Section may be contacted at:

Frederick County Government
Environmental Compliance Section
30 North Market Street
Frederick, Maryland 21701

Phone: 301-600-1132
FAX: 301-600-3518
Website: <http://www.co.frederick.md.us>
- Areas Affected:** Suppression areas are denoted in this FFCP document. Suppression and control efforts within the site shall take place in all forestation areas, tree save areas, and all forest retention areas (saved forest areas). Suppression and control efforts shall also take place in the existing forest areas retained to satisfy the Forest Resource Ordinance (FRO) requirements. As noted, all of the retained existing forest is included in the suppression area because of the presence of target species throughout the site. Also, new planting areas may also be subject to suppression efforts if there is a presence of target species within the planting areas.
- Timing of Operations:** Suppression efforts may begin at any time. However, if suppression efforts have not commenced prior to obtaining a Forest Conservation Permit, suppression efforts must begin in forest retention and tree save areas once a Forest Conservation Permit is obtained. Initial removal and treatment of the target species must occur prior to planting forestation areas.
- Flagging Required:** Target vegetation within the suppression area (s) shall be clearly flagged with surveyor's ribbon or otherwise identified in a clear and recognized manner. Flagging or otherwise identifying target vegetation shall be done so as to prevent removal of desirable (native) species along with the target species.

Suppression and Control of Invasive, Exotic Species – Frederick County Notes for FFCP's Page 2 of 3

- Methods of Removal:** Suppression and control of the target species can be by mechanical or chemical methods or a combination of both. Mechanical controls include mowing or chopping at or near the ground level and removal of the plant by digging, pulling, or bulldozing. Mowing or chopping will likely result in re-growth from the stump or root sprouts. Therefore, this method requires also treating the remaining stump and/or root sprouts. The removal of the remaining roots by some means of excavation will disturb the soil. This may require sediment control measures, which is the responsibility of the contractor. Holes created by the removal of roots are to be filled with topsoil.
- Stabilizing Bare Ground:** All bare ground areas resulting from mechanical control methods are to be immediately stabilized. Disturbed areas with sufficient light shall be seeded per the improvement plan specifications. Densely shaded areas shall be mulched with 2" of shredded hardwood mulch or wood chips. The use of heavy equipment within non-wetland floodplain areas is prohibited, unless the soil is dry enough for the equipment to be supported without excessive damage to the soil or desirable ground cover plants. Heavy equipment is not allowed in wetlands or streams.
- Use of Chemicals:** Chemical control is by herbicide application to the target species. The use of herbicides shall be in strict accordance with state and Federal regulations and include but are not limited to:
 - The use and application of all herbicides shall be in strict accordance with the label on the herbicide's container and/or the instructions accompanying the herbicide.
 - Herbicides used in or near wetlands or streams shall be clearly labeled as to indicate that the herbicide is for use near bodies of water.
 - All herbicide applications shall be conducted during the appropriate time of year and under environmentally favorable conditions with consideration to weather elements (i.e. wind and temperature) and in accordance with the label.
 - Individuals who are qualified and licensed pesticide applicators will conduct all herbicide applications.
 - Herbicides are to be applied in a manner that only suppresses the target vegetation and does not suppress or destroy surrounding desirable plants.
- Protecting Living Root Mats:** Root mats of plants treated with herbicides are to remain in place to stabilize the soil.
- Debris Removal:** Brush, root mats, and debris resulting from the use of mechanical controls shall be removed from the site and properly disposed.
- Recommended Sources of Information:** Recommended suppression treatments can be obtained from publications written by Philip D. Panfil, Regional Watershed Forester, Western Region, Maryland Department of Natural Resources, Forest Service. Recommended are:
 - Problem Weed Species for Forestry in Maryland
 - Ailanthus Altissima – Controlling Tree of Heaven
 - Tree of Heaven Control
 - Control of Ailanthus in Forest ManagementThe contractor shall consult the above publications for recommended herbicides and additional treatment options. These publications as well as other relevant publications are available upon request by contacting:
Maryland Dept. of Natural Resources
1260 Maryland Avenue
Hagerstown, MD 21740

Phone: 301-791-4010
Email: ppanfil@dnr.state.md.us
Website: www.dnr.state.md.us/forrest
- Specific Recommendations:** The contractor and pesticide/herbicide applicator shall choose the appropriate control measures to match both local conditions and available skilled labor so as to minimize impacts to the environment. The following treatment methods are advised:
 - Japanese Honeysuckle: manually cut or pull vines or treat re-sprouts with herbicide (post-emerge).
 - Multiflora Rose and Russian Olive: repeated mowing or cutting or treat re-sprouts with herbicide (post-emergent).
 - Tree of Heaven: initial cutting of trees followed by frequent cutting and mowing of sprouts. Herbicide treatments include post-emerge foliar spray, cut surface treatments and basal bark application.
- Follow-up Treatments:** Following the initial treatment, the suppressed areas shall be monitored/inspected and re-growth/re-infestation shall be treated at least three additional times during the three-year maintenance period.
- Long-term Management:** Re-growth and/or re-infestation shall be treated as indicated. Monitoring and maintenance activities shall be in accordance with the Forest Improvements and Protection Agreement (FIPA). Long-term control of invasive exotic species shall be per the Forest Resource Inspection and Maintenance Covenants and Agreement as recorded with the Forest Resource Deed of Easement.

SEQUENCE OF CONSTRUCTION:

- STAKEOUT/FLAGGING OF LIMITS OF DISTURBANCE, LIMITS OF AFFORESTATION/ REFORESTATION AREA AND PLACEMENT OF TEMPORARY AND APPLICABLE PERMANENT SIGNAGE.
- INSTALLATION OF PROTECTIVE DEVICES.
- HOLD PRE-CONSTRUCTION MEETING AND MAKE ADJUSTMENTS AS MAY BE REQUIRED.
- COMPLETE SITE GRADING.
- PREPARE SITE FOR PLANTING (I.E. SOIL AMENDMENTS, DISCING, ETC.)
- PLANT AFFORESTATION AREA AND COMPLETE PLACEMENT OF SIGNAGE.
- STABILIZE ALL DISTURBED AREAS, REMOVE TEMPORARY PROTECTION DEVICES.
- PERFORM POST-CONSTRUCTION INSPECTION
- BEGIN MONITORING PROGRAM.
- AT ONE YEAR ANNIVERSARY, PERFORM INSPECTION FOR NECESSITY OF REINFORCEMENT PLANTING OR POSSIBLE INCREMENTAL BOND REDUCTION. ITEMS TO CONSIDER ARE: VIGOR, GROWTH RATE, STRUCTURE, CROWN DEVELOPMENT, TRUNK HEALTH, AND THREAT OF COMPETING VEGETATION.
- AT 3 YEAR ANNIVERSARY, PERFORM FINAL INSPECTION WITH LOCAL INSPECTOR FOR FINAL BOND RELEASE. A 75% SURVIVAL REQUIREMENT IS NECESSARY.

GENERAL NOTES

- THIS FOREST CONSERVATION PLAN HAS BEEN PREPARED PURSUANT TO THE FREDERICK COUNTY FOREST RESOURCE ORDINANCE. ANY DEVIATION FROM THIS APPROVED PLAN MAY MAKE THE OWNER/DEVELOPER SUBJECT TO FINES AND PENALTIES PURSUANT TO ENFORCEMENT ACTION TAKEN BY THE APPROVING AUTHORITY.
- NO DISTURBANCE OF ANY EXISTING FOREST SHALL BE PERMITTED EXCEPT AS SHOWN ON THIS PLAN OR FOR PROPOSED UTILITY LINEAR PROJECTS.
- PROTECTION DEVICES:
 - ALL DESIGNATED PROTECTIVE DEVICES SHALL BE HIGHLY VISIBLE, WELL ANCHORED TEMPORARY PROTECTION DEVICES AND SHALL BE IN PLACE PRIOR TO ANY GRADING OR LAND CLEARING.
 - ALL PROTECTION DEVICES SHALL BE PROPERLY MAINTAINED FOR THE LONGER OF 3 YEARS OR UNTIL THE END USER OCCUPIES THE SITE AND CONSTRUCTION IS COMPLETE WHICHEVER IS GREATER.
 - PROTECTION DEVICES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
 - ATTACHMENT OF SIGNS OR ANY OTHER DEVICES TO TREES SHALL BE ACCOMPLISHED USING GALVANIZED STAPLES OR ROOFING NAILS OR ANCHORING SYSTEMS WHICH DO NOT DAMAGE THE BARK.
 - NO EQUIPMENT, MACHINERY, VEHICLES, MATERIALS OR EXCESSIVE PEDESTRIAN TRAFFIC SHALL BE ALLOWED WITHIN PROTECTED AREAS DURING CONSTRUCTION.
 - PROTECTIVE FENCES SHALL BE SILT FENCE OR TWO STRAND WIRE FENCING AS DEPICTED IN THE DETAIL SHOWN HEREON.
- HOLD A PRE-CONSTRUCTION MEETING AT THE SITE AFTER PLACING PROTECTIVE DEVICES AND BEFORE START OF CONSTRUCTION AND/OR CLEARING. ATTENDEES SHOULD INCLUDE THE OWNER/DEVELOPER, CONTRACTOR(S), AND LOCAL INSPECTOR(S). NO CLEARING OR GRADING OF SITE UNTIL PROTECTIVE FENCING AND SIGNAGE HAS BEEN ERECTED BY APPLICANT AND APPROVED BY DPW/ECS.
- ANY CHANGES MADE TO THE PLAN DUE TO ON-SITE CONDITIONS SHALL BE MADE IN CONSULTATION WITH THE QUALIFIED PROFESSIONAL AND/OR THE PLAN PREPARER AND APPROVED BY FREDERICK COUNTY DEVELOPMENT REVIEW PLANNING.
- AFTER CONSTRUCTION, THE FOLLOWING MEASURES SHALL BE TAKEN WHEN APPROPRIATE:
 - CORRECTIVE MEASURES IF DAMAGES WERE INCURRED, INCLUDING STRESS REDUCTION MEASURES AND REMOVAL OF DEAD OR DYING TREES WHICH MAY POSE A SAFETY HAZARD.
 - REMOVAL OF TEMPORARY FOREST PROTECTION DEVICES AND DISPOSAL AS APPROPRIATE.
- FOLLOWING COMPLETION OF CONSTRUCTION, THE LOCAL INSPECTOR SHALL INSPECT THE ENTIRE SITE.
- ALL CONSTRUCTION METHODS AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH FREDERICK COUNTY STANDARDS AND SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE UTILIZATION OF MEN, MATERIALS, EQUIPMENT AND SAFETY MEASURES IN THE PERFORMANCE OF ANY WORK ON THIS PROJECT. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR PERFORMING THE WORK CORRECTLY AND IN CONFORMANCE WITH ALL APPLICABLE CODES AND REGULATIONS. LOCATION AND EXTENT OF ROCK, WATER TABLES, UTILITIES, ETC. IS THE FULL RESPONSIBILITY OF THE CONTRACTOR.
- GRADING WILL BE MINIMIZED WHERE NEEDED TO PRESERVE THE SPECIMEN TREES ON SITE.

FOREST CONSERVATION WORKSHEET

Net Tract Area		Note: Use 9 for all negative numbers that result from the calculations. Aw = 81.89 Bw = 0.00 Cw = 91.69	
A. Total Tract Area			
B. Deductions (Critical Area, area restricted by local ordinance or program)			
C. Net Tract Area = Total Tract (A) - Deductions (B)			
Land Use Category: Medium Density Residential			
D. Afforestation Threshold (Net Tract Area (C) x 15%)		Dw = 13.75	
E. Conservation Threshold (Net Tract Area (C) x 15.5%)		Es = 13.75	
Existing Forest Cover			Fw = 14.82
F. Existing Forest Cover within the Net Tract Area			Gw = 1.07
G. Area of Forest Above Conservation Threshold If the Existing Forest Cover (F) is greater than the Conservation Threshold (E), then G = F - E; otherwise G = 0.			
Breakeven Point			Hw = 13.96
H. Breakeven Point (Amount of forest that must be retained so that no mitigation is required)			
(1) If the Area of Forest Above Conservation Threshold (G) is greater than 0, then H = (0.2 x the Area of Forest Above Conservation Threshold (G)) + the Conservation Threshold (E).			
(2) If the Area of Forest Above Conservation Threshold (G) is equal to 0, then H = Existing Forest Cover (F)			
I. Forest Clearing Permitted Without Mitigation I = Existing Forest Cover (F) - Breakeven point (H)			Iw = 0.86
Proposed Forest Clearing			Jw = 8.55
J. Total Area of Forest to be Cleared			Kw = 6.27
K. Total Area of Forest to be Retained K = Existing Forest Cover (F) - Forest to be Cleared (J)			
Planting Requirements If the Total Area of Forest to be Retained (K) is at or above the Breakeven Point (H), no planting is required, and no further calculations are necessary (L=0, M=0, N=0, P=0, Q=0, R=0). Otherwise, calculate the planting requirement(s) as follows: Reforestation for Clearing Above the Conservation Threshold (1) If the Total Area of Forest to be Retained (K) is greater than the Conservation Threshold (E), then L = the Area of Forest to be Cleared (J) x 0.25. (2) If the Forest to be Retained (K) is less than or equal to the Conservation Threshold (E), then L = Area of Forest Above Conservation Threshold (G) x 0.25 Reforestation for Clearing Below the Conservation Threshold (1) If Existing Forest Cover (F) is greater than the Conservation Threshold (E) and the Forest to be Retained (K) is less than or equal to the Conservation Threshold (E), then M = 2.0 x (Conservation Threshold (E) - Forest to be Retained (K)). (2) If Existing Forest Cover (F) is less than or equal to the Conservation Threshold (E), then M = 2.0 x Forest to be Cleared (J). Credit for Retention Above the Conservation Threshold If the Area of Forest to be Retained (K) is greater than the Conservation Threshold (E), then N = K - E; Otherwise N=0. Total Reforestation Required P = L + M - N Total Afforestation Required If Existing Forest Cover (F) is less than the Afforestation Threshold (D), then Q = Afforestation Threshold (D) - Existing Forest Cover (F) Total Planting Requirement R = P + Q			L = 0.27
		M = 14.96	
		N = 0.00	
		P = 15.23	
		Q = 0.00	
		R = 15.23	

UPLAND AFFORESTATION PLANT LIST				
QTY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT
211	TULIP TREE	LIRIODENDRON TULIPIFERA	1" CAL.	B&B
211	RED MAPLE	ACER RUBRUM	1" CAL.	B&B
211	RED OAK	QUERCUS RUBRA	1" CAL.	B&B
211	BLACK WALNUT	JUGLANS NIGRA	1" CAL.	B&B
212	SUGAR MAPLE	ACER SACCHARUM	1" CAL.	B&B
212	COMMON HAZELBERRY	CELTIS OCCIDENTALIS	1" CAL.	B&B
212	SWEET GUM	LIQUIDAMBAR STRYACFLUA	1" CAL.	B&B
212	FLOWERING DOGWOOD	CORNUS FLORIDA	1" CAL.	B&B
212	AMERICAN BEECH	FAGUS GRANDIFOLIA	1" CAL.	B&B

PLANTING AREAS: UA-1, UA-2, UA-3, UA-4, UA-5, UA-6, UA-7, UA-8, UA-9, & UA-10
PROPOSED CREDIT: 9.52 AC.
APPROXIMATE SPACING IS 15' X 15' ON CENTER

TREES TO BE PLANTED AT RATE OF 200 PER ACRE OR (200 X 9.52 = 1,904) PER SECTION 3.3.2 OF THE MARYLAND STATE FOREST CONSERVATION MANUAL (THIRD EDITION 1997). PLANT 1,904 TREES WHILE USING A MINIMUM OF 211 OF EACH DECIDUOUS TREE SPECIES. SURVIVABILITY RATE OF 85% REQUIRED.

*DEVELOPER MAY CHOOSE TO PLANT TREES AT THE LARGER 1.5-2" CALIPER. IN THIS SCENARIO, TREES TO BE PLANTED AT RATE OF 100 PER ACRE OR (100 X 9.52 = 952) PER SECTION 3.3.2 OF THE MARYLAND STATE FOREST CONSERVATION MANUAL (THIRD EDITION 1997). PLANT 952 TREES WHILE USING A MINIMUM OF 105 OF EACH DECIDUOUS TREE SPECIES. IF THIS OPTION IS UNDERTAKEN TREES MUST MEET A 100% SURVIVAL RATE.

WETLAND AFFORESTATION PLANT LIST				
QTY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT
17	RIVER BIRCH	BETULA NIGRA	1" CAL.	B&B
17	SERVICEBERRY	AMELANCHIER CANADENSIS	1" CAL.	B&B
18	RED MAPLE	ACER RUBRUM	1" CAL.	B&B
18	EASTERN REDBUD	CERIS CANADENSIS	1" CAL.	B&B
18	BLACK GUM	NYSSA SYLVATICA	1" CAL.	B&B
18	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	1" CAL.	B&B
18	BOXELDER MAPLE	ACER NEGUNDO	1" CAL.	B&B
18	BLACK WILLOW	SAUX NIGRA	1" CAL.	B&B

PLANTING AREAS: WA-1
PROPOSED CREDIT: 0.71 AC.
APPROXIMATE SPACING IS 15' X 15' ON CENTER

TREES TO BE PLANTED AT RATE OF 200 PER ACRE OR (200 X 0.71 = 142) PER SECTION 3.3.2 OF THE MARYLAND STATE FOREST CONSERVATION MANUAL (THIRD EDITION 1997). PLANT 142 TREES WHILE USING A MINIMUM OF 17 OF EACH DECIDUOUS TREE SPECIES. SURVIVABILITY RATE OF 85% REQUIRED.

*DEVELOPER MAY CHOOSE TO PLANT TREES AT THE LARGER 1.5-2" CALIPER. IN THIS SCENARIO, TREES TO BE PLANTED AT RATE OF 100 PER ACRE OR (100 X 0.71 = 71) PER SECTION 3.3.2 OF THE MARYLAND STATE FOREST CONSERVATION MANUAL (THIRD EDITION 1997). PLANT 71 TREES WHILE USING A MINIMUM OF 8 OF EACH DECIDUOUS TREE SPECIES. IF THIS OPTION IS UNDERTAKEN TREES MUST MEET A 100% SURVIVAL RATE.

RETENTION		CLEARING		EX FOREST
R-1 =	12,541 SF	±0.29 AC.	C-1 = 2,924 SF	±0.07 AC.
R-2 =	3,515 SF	±0.08 AC.	C-2 = 369,557 SF	±8.49 AC.
R-3 =	257,051 SF	±5.90 AC.		
273,107 SF DR 6.27 AC		372,481 SF DR 8.55 AC		14.82 AC

UPLAND AFFORESTATION	WETLAND AFFORESTATION	TOTAL FRO PLANTINGS
UA-1 = 53,120 SF ±1.22 AC.	WA-1 = 30,766 SF ±0.71 AC.	
UA-2 = 44,611 SF ±1.02 AC.		
UA-3 = 41,659 SF ±0.96 AC.		
UA-4 = 15,888 SF ±0.36 AC.		
UA-5 = 63,736 SF ±1.46 AC.		
UA-6 = 23,884 SF ±0.55 AC.		
UA-7 = 15,905 SF ±0.37 AC.		
UA-8 = 106,226 SF ±2.44 AC.		
UA-9 = 33,199 SF ±0.76 AC.		
UA-10 = 16,604 SF ±0.38 AC.		
414,832 SF DR 9.52 AC	30,766 SF DR 0.71 AC	10.23 AC

FOREST CONSERVATION COMPLIANCE:

REFORESTATION REQUIRED: ±15.23 AC.
STREET TREE CANOPY CREDIT: ±5.00 AC. (308 STREET TREES X 707 SF)
PROPOSED WETLAND AFFORESTATION: ±0.71 AC
PROPOSED UPLAND AFFORESTATION: ±9.52 AC
TOTAL PLANTING PROVIDED: ±15.23 AC.

*NOTE: THE EXISTING FOREST FROM THE FSD IS 15.86 AC. THE DIFFERENCE IS THE EXISTING FORD COUNTY CONSERVATION EASEMENT ALONG THE EXISTING FOOD LION TO THE SOUTH-WEST OF THE SITE. (L.2295, F.174)



STREET TREE SCHEDULE				
Count	COMMON NAME	LATIN NAME	REMARKS	SIZE
56	RED MAPLE	ACER RUBRUM	B&B	2-2-1/2" CAL
52	BLACK GUM	NYSSA SYLVATICA	B&B	2-2-1/2" CAL
100	LONDON PLANETREE	PLATANUS ACERIFOLIA	B&B	2-2-1/2" CAL
45	SCARLET OAK	QUERCUS COCCINEA	B&B	2-2-1/2" CAL
55	LITTLELEAF LINDEN	TILIA CORDATA	B&B	2-2-1/2" CAL

STREET TREE SPACING VARIES AS SHOWN ON THE PLAN. MINIMUM SPACING OF 35' ON CENTER TO BE MAINTAINED THROUGHOUT THE PLAN.

HARRIS SMARIGA
PLANNERS • ENGINEERS • SURVEYORS

125 S. CARROLL STREET
SUITE 100
FREDERICK
MARYLAND 21701
P.301.662.4488
F.301.662.4006
www.harris-smariga.com

REVISIONS:

PRELIMINARY FOREST CONSERVATION PLAN DETAILS ENGLAND WOODS

PROPERTY OF ENG-LAND ACRES, LLC
PER L.6958, F.673, RECORDED AT PB.82 P.194

PROPERTY OF TURNPIKE FARM LIMITED PARTNERSHIP
PER L.4264 F.341, RECORDED AT PB.29 P.144

LOCATED ON OLD NATIONAL PIKE & WELL SPRING WAY
NEW MARKET, MARYLAND
NEW MARKET ELECTION DISTRICT NO. 9
FREDERICK COUNTY, MARYLAND

SCALE:
AS NOTED
DRAWN
BY: LNZ
CHECKED
BY: SFZ
DATE:
FEB. 2024
SHEET: 4
OF: 4
PROJECT:
6357
4