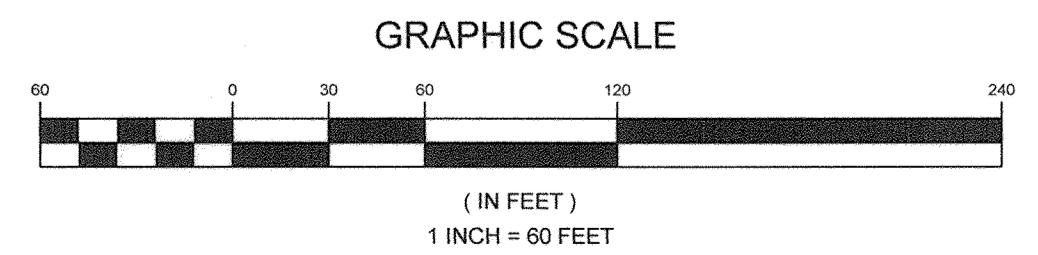
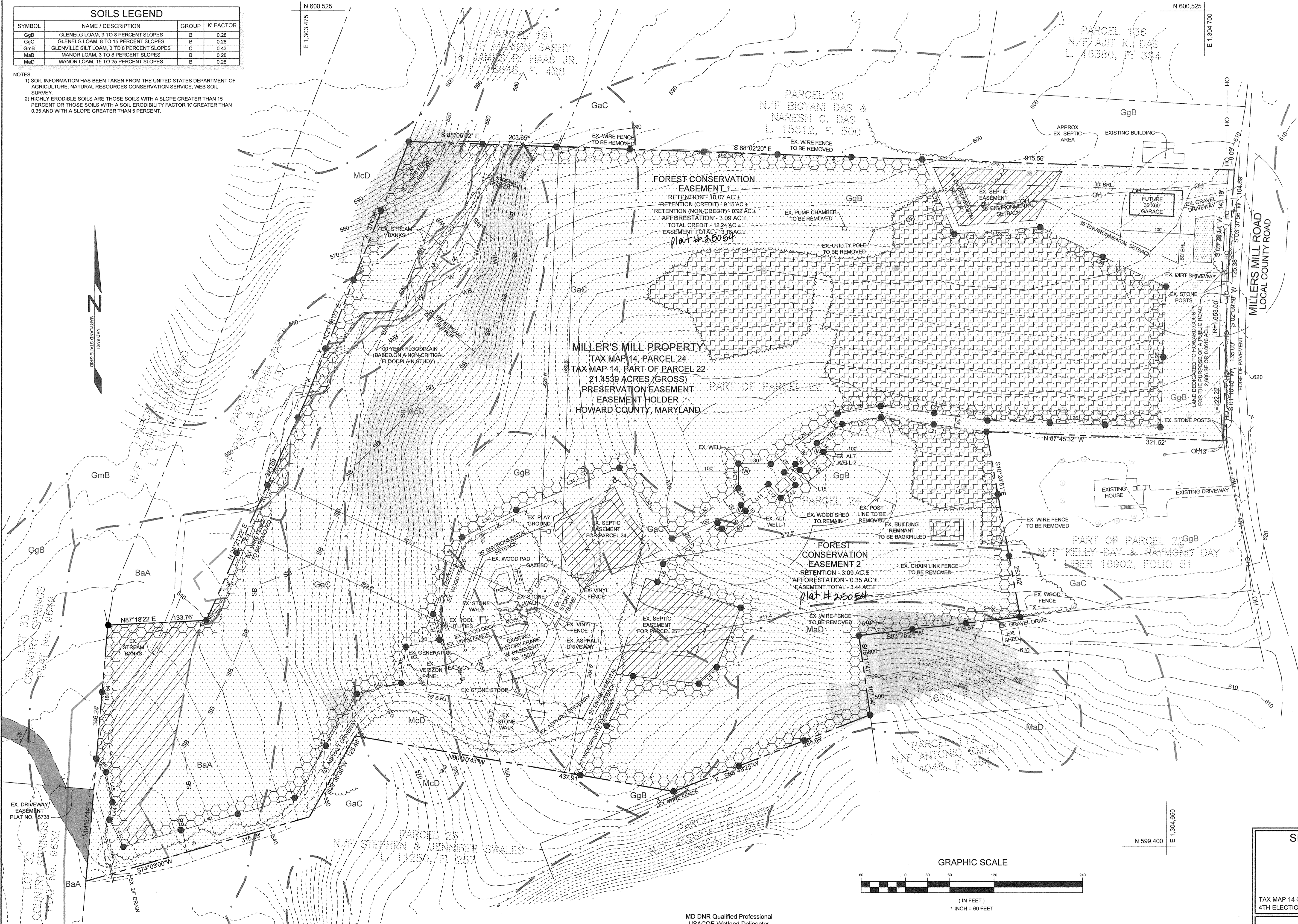


SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	0.28
GmB	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	0.28
GmC	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	0.43
MaB	MANOR LOAM, 3 TO 8 PERCENT SLOPES	B	0.28
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	0.28

- NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY.
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

LEGEND	
EXISTING CONTOUR	--- 382
EXISTING SPOT ELEVATION	382.3
EXISTING TREELINE	~~~~~
LIMIT OF WETLANDS	W W
WETLANDS BUFFER	WB WB
EXISTING STREAM	— — —
STREAM BUFFER	SB SB
EXISTING WOOD FENCE	
EXISTING UTILITY POLE	○
EXISTING OVERHEAD WIRES	— ○ —
EXISTING WETLANDS	↓ ↓ ↓
PUBLIC FOREST CONSERVATION EASEMENT	▨
PUBLIC FOREST CONSERVATION EASEMENT (NON-CREDIT) 0.91 AC ±	▨
PRESERVATION EASEMENT BETWEEN HOWARD COUNTY, MD & M. NAJIB AND FANILA ROSHAN	▨
EXISTING MODERATE SLOPES 14% - 24.99%	▨
EXISTING STEEP SLOPES 25% OR GREATER (>0.48 AC ±)	▨
FOREST CONSERVATION SIGN	●
EXISTING WELL	⊙
FOREST CONSERVATION EASEMENT AFFORESTATION AREA	▨



OWNER/DEVELOPER
 PARCEL 22 & 24
 WILLIAM MORGAN ADAMS JR. & MONICA LYNN ADAMS
 15015 KENWOOD COURT
 WOODBINE, MD 21797
 443.310.0567

SIMPLIFIED FOREST STAND DELINEATION & FOREST CONSERVATION PLAN
MILLER'S MILL PROPERTY
 FOREST CONSERVATION MITIGATION BANK
 ZONED: RC-DEO
 ASSOCIATED FILE NO. F-18-075 P/O PARCEL 22 & PARCEL 24
 HOWARD COUNTY, MARYLAND

TAX MAP 14 GRID 3
 4TH ELECTION DISTRICT

		DESIGN BY: PS DRAWN BY: AEA CHECKED BY: PS SCALE: 1"=60' DATE: APRIL 8, 2019 PROJECT #: 16-016 SHEET #: 2 of 3
	11130 Dovedale Court, Suite 200 Marriottsville, Maryland 21104 Phone: 443.325.5076 Fax: 410.696.2022 Email: info@sillengr.com Civil Engineering for Land Development	
	PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20283, EXPIRATION DATE: JUNE 20, 2019.	
	SIGNED: _____ DATE: _____	
	PROJECTED: _____ DATE: _____	

APPROVED: _____
 DIRECTOR
 DATE: 6-19-19
 CHIEF, DIVISION OF LAND DEVELOPMENT

APPROVED: _____
 DATE: 4-24-19
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

APPROVED: _____
 FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

NO.	DESCRIPTION	DATE

MD DNR Qualified Professional
 USACE Wetland Delineator
 Certification # WDCP93MD0610044B2
 John P. Canoles
 Date: 4/9/19

Eco-Science Professionals, Inc.
 Consulting Engineers
 730 Bus 1006 Glen Ave., Maryland 21087 Telephone: (410) 810-2400 Fax: (410) 810-2401

EXISTING CONDITIONS OVERVIEW

THE SUBJECT PROPERTY IS 21.5+ ACRES LOCATED AT 2034 MILLERS MILL ROAD IN THE COOKSVILLE SECTION OF HOWARD COUNTY, MARYLAND. THE PROPERTY INCLUDES A SINGLE FAMILY HOME THAT IS SURROUNDED BY LAWN AREA ACCESSORY USES AROUND THE HOME INCLUDE A POOL, GARDEN AREAS A GARAGE AND OTHER OUTBUILDINGS. THE HOMESTEAD AREA IS LOCATED IN THE SOUTHWESTERN PORTION OF THE SITE AND ACCESS TO THE HOME IS GAINED VIA A RIGHT OF WAY EASEMENT THROUGH THE PROPERTIES TO THE WEST OF THE SITE.

THE REMAINDER OF THE PROPERTY IS FOREST OR OLD FIELD, FORMER PASTURE, LANDS. FOREST OCCUPIES APPROXIMATELY 14.5 ACRES WITH THE MAJORITY OF THE FOREST BEING DOMINATED BY A MIXED OAK/TULIP POPLAR COMMUNITY. THE FOREST CONTAINS A SUCCESSIONAL STAGE OF THE OAK POPLAR COMMUNITY AND A MORE MATURE STAGE OF THIS ASSOCIATION. THE SUCCESSIONAL COMMUNITY, IDENTIFIED AS STAND F1, IS DOMINATED BY TULIP POPLAR THAT ARE GENERALLY 6-12 INCHES IN DIAMETER AT BREAST HEIGHT. POPLAR MAKES UP NEARLY 30 PERCENT OF THE CANOPY CLOSURE. LESS COMMON ASSOCIATES INCLUDE COTTONWOOD, BLACK CHERRY, AND RED MAPLE. AMERICAN HOLLY AND FLOWERING DOGWOOD ARE COMMON UNDERSTORY SPECIES. THIS STAND IS IMPACTED BY INVASIVE SPECIES, PARTICULARLY ALONG ITS OUTER EDGES. THESE INCLUDE ORIENTAL BITTERSWEET, JAPANESE HONEYSUCKLE, JAPANESE BARBERY AND STILL GRASS.

THE MATURE OAK/POPLAR COMMUNITY IS PRESENT ALONG THE SLOPES ON THE WESTERN AND SOUTHERN PORTIONS OF THE SITE. THE CANOPY OF THIS STAND, MAPPED AS STAND F2, INCLUDE WHITE OAK, BLACK OAK, CHESTNUT OAK, RED OAK AND TULIP POPLAR. CHESTNUT OAK, WHICH IS THE MOST COMMON SPECIES, OCCUPIES NEARLY 40 PERCENT OF THE CANOPY. THE CANOPY TREES ARE GENERALLY 12-20 INCHES DBH WITH SCATTERED LARGER INDIVIDUALS WITHIN THE STAND. THE UNDERSTORY OF THE COMMUNITY INCLUDES BLACK CHERRY, RED MAPLE, BLACK GUM AND FLOWERING DOGWOOD. SPICEBUSH, LOWBUSH BLUEBERRY AND OAK SEEDLINGS COMPRISE THE SHRUB LAYER. THIS STAND HAS LESS INVASIVE SPECIES COLONIZATION BUT JAPANESE BARBERY AND ORIENTAL BITTERSWEET WERE NOTED.

EIGHT SPECIMEN TREES WERE NOTED ON THE PROPERTY. ALL BUT ONE OF TREES OCCURS WITHIN THE FOREST. THE LOCATION, TYPE, SIZE AND CONDITION OF EACH TREE IS SHOWN HEREON.

THE OLD FIELD HABITAT HAS DEVELOPED IN WHAT APPEAR TO HAVE BEEN PASTURE OR HAYFIELD AREAS. THESE AREAS INCLUDE AREAS DOMINATED BY MIXED GRASSES AND WILDFLOWERS AS WELL AS AREAS WITH WOODY SUCCESSIONAL DEVELOPMENT. THE WOODY SUCCESSIONAL SPECIES INCLUDE NATIVE SPECIES INCLUDING BLACK LOCUST AND BLACK CHERRY AND INVASIVE SPECIES INCLUDING TREE-OF-HEAVEN, AUTUMN OLIVE, AND BRADFORD PEAR. JAPANESE HONEYSUCKLE AND POISON IVY ARE ALSO COMMON IN THESE OPEN AREAS.

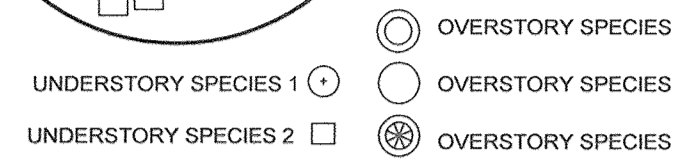
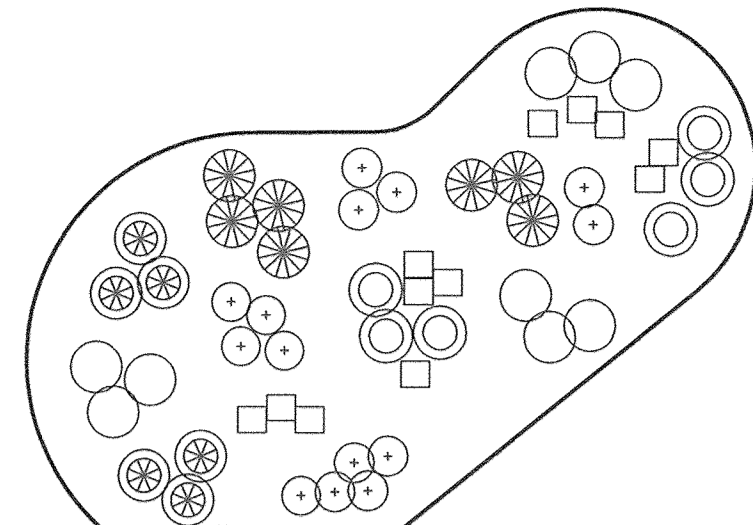
THE SITE CONTAINS A SMALL WETLAND/STREAM SYSTEM THAT IS LOCATED IN THE NORTHWEST CORNER OF THE PROPERTY. THIS AREA INCLUDES A PERENNIAL SPRING SEEP AND STREAM CHANNEL. JEWELWEED, RICE CUT GRASS FALSE NETTLE AND SKUNK CABBAGE WERE NOTED IN THE WETLANDS. THE STREAM CHANNEL CONTINUES TO FLOW ALONG TO THE SOUTH, MEANDERING ON AND OFF OF THE WESTERN EDGE OF THE PROPERTY. APPROXIMATELY 0.95 ACRES OF 100 YEAR FLOODPLAIN ARE PRESENT ALONG THE STREAM CHANNEL.

FOREST CONSERVATION BANK PROPOSAL

THE PROPERTY OWNERS ARE SEEKING TO CREATE A FOREST CONSERVATION BANK THAT WILL INCLUDE APPROXIMATELY 13.16 ACRES OF RETENTION (OUTSIDE OF THE 100 YEAR FLOODPLAIN) AND 3.44 ACRES OF AFFORESTATION. THE PLANTING AREAS WILL EXPAND UPON THE LARGE RETENTION AREA. THE PLANTINGS WILL INCREASE FOREST RESOURCES AND HABITAT FUNCTION IN THE AREA OF THE SITE AND WILL PROVIDE ENHANCEMENT WATER QUALITY BENEFIT.

THE PLANTING PLAN HAS BEEN DESIGNED TO CREATE A NATURAL COMMUNITY WITH A MIX OF SUCCESSIONAL ELEMENTS. EARLY SUCCESSIONAL SPECIES HAVE BEEN FAVORED TO PROMOTE NATURAL COMMUNITY DEVELOPMENT WHILE SOME LATER SUCCESSIONAL SPECIES HAVE BEEN INCLUDED TO INCREASE DIVERSITY AND PROMPT RETURN SUCCESSION.

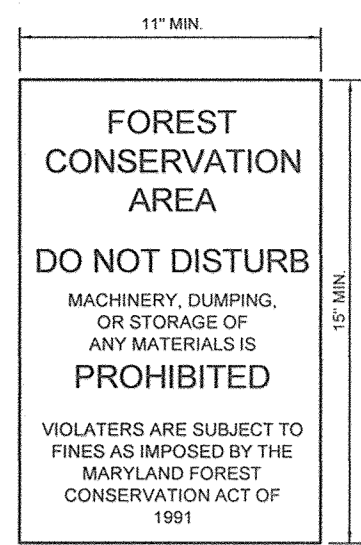
THE FOREST WITHIN THE FLOODPLAIN HAS BEEN INCLUDED IN THE FOREST CONSERVATION EASEMENT BUT HAS NOT BEEN CALCULATED TOWARD RETENTION CREDIT AVAILABLE FOR THE BANK.



THIS DIAGRAM SHOWS A TYPICAL DISPERSAL OF SPECIES WITHIN PLANTING AREA. THE SPACING SHALL BE IN ACCORDANCE WITH THE APPROVED PLANTING SCHEDULE. WHERE THE SIZE OF THE PLANTING STOCK VARIES, THE PLANTING UNITS SHALL INSTALLED AT AVERAGED SPACING TO PROVIDE APPROXIMATELY UNIFORM COVERAGE.

RANDOM PLANTING DISTRIBUTION PLAN

NOT TO SCALE



FOREST CONSERVATION SIGN DETAIL

- NOTES:
1. BOTTOM OF SIGN 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.
 4. SIGNAGE SHALL BE IN PLACE FOR PERPETUITY.
 5. ● DENOTES SIGN LOCATION.

PLANTING SCHEDULE

QUANTITY	SPECIES	SIZE	SPACING	TOTAL FCA UNITS
75	ACER NEGUNDO - BOX ELDER	2-3" WHIP	11' O.C.	
100	ACER RUBRUM - RED MAPLE	2-3" WHIP	11' O.C.	
120	JUGLANS NIGRA - BLACK WALNUT *	2-3" WHIP	11' O.C.	
75	JUNIPERUS VIRGINIANA - RED CEDAR	2-3" WHIP	11' O.C.	
150	LIRIODENDRON TULIPIFERA - TULIP POPLAR *	2-3" WHIP	11' O.C.	
110	NYSSA SYLVATICA - BLACK GUM	2-3" WHIP	11' O.C.	
75	PLATANUS OCCIDENTALIS - SYCAMORE	2-3" WHIP	11' O.C.	
150	PRUNUS SEROTINA - BLACK CHERRY *	2-3" WHIP	11' O.C.	
125	QUERCUS ALBA - WHITE OAK	2-3" WHIP	11' O.C.	
105	VIBURNUM PRUNIFOLIUM - BLACKHAW *	2-3" WHIP	11' O.C.	
1085	TOTAL WHIP PLANTINGS X 2 UNITS /TREE = FCA UNIT CREDIT			2170
	TOTAL UNIT CREDIT			2170

QUANTITY	SPECIES	SIZE	SPACING	TOTAL FCA UNITS
10	ACER NEGUNDO - BOX ELDER	2-3" WHIP	11' O.C.	
10	ACER RUBRUM - RED MAPLE	2-3" WHIP	11' O.C.	
10	JUGLANS NIGRA - BLACK WALNUT *	2-3" WHIP	11' O.C.	
10	JUNIPERUS VIRGINIANA - RED CEDAR	2-3" WHIP	11' O.C.	
15	LIRIODENDRON TULIPIFERA - TULIP POPLAR *	2-3" WHIP	11' O.C.	
15	NYSSA SYLVATICA - BLACK GUM	2-3" WHIP	11' O.C.	
9	PLATANUS OCCIDENTALIS - SYCAMORE	2-3" WHIP	11' O.C.	
18	PRUNUS SEROTINA - BLACK CHERRY *	2-3" WHIP	11' O.C.	
16	QUERCUS ALBA - WHITE OAK	2-3" WHIP	11' O.C.	
10	VIBURNUM PRUNIFOLIUM - BLACKHAW *	2-3" WHIP	11' O.C.	
123	TOTAL WHIP PLANTINGS X 2 UNITS /TREE = FCA UNIT CREDIT			246
	TOTAL UNIT CREDIT			246

FCE 1 - AFFORESTATION AREA - 3.1 ACRES
PLANTING UNITS REQUIRED: 2,170
PLANTING UNITS PROVIDED: 2,170

PLANTING NOTES:

PLANTING DENSITY BASED SPACING REQUIREMENTS: WHIPS WITH SHELTER @ 11' ON CENTER.

* - THESE SPECIES SHOULD NOT BE PLANTED IN WETLANDS

** - THESE SPECIES SHOULD NOT BE PLANTED IN UPLANDS

PLANTING MAY BE MADE IN A CURVILINEAR FASHION ALONG CONTOUR. THE PLANTING SHOULD AVOID A GRID APPEARANCE BUT SHOULD BE SPACED TO FACILITATE MAINTENANCE.

MULTIFLORA ROSE/HEAVY BRUSH REMOVAL/CONTROL MAY BE REQUIRED PRIOR TO INSTALLATION OF PLANTING.

ALL WHIPS ARE REQUIRED TO BE INSTALLED WITH TREE SHELTERS PER HOWARD COUNTY FCA REQUIREMENTS. PLANTING UNITS DEFINED BY THE SPACING REQUIREMENTS ESTABLISHED IN THE FCA MANUAL. ONE PLANT UNIT IS DEFINED AS 1 SEEDLING OR WHIP WITHOUT SHELTER. THE MANUAL STATES THAT 700 SEEDLINGS/WHIPS WITHOUT SHELTERS ARE REQUIRED PER ACRE, OR 350 WHIPS WITH SHELTERS, OR 200 1" CALIPER TREES, OR 100 2" CALIPER TREES. BY CONVERSION IT HAS BEEN DETERMINED THAT A SEEDLING OR WHIP WITHOUT SHELTER = 1 UNIT, WHIP WITH SHELTER = 2 UNITS, 1" CALIPER TREE = 3.5 UNITS AND 2" CALIPER TREE = 7 UNITS. THE USE OF PLANT UNITS SIMPLIFIES THE PLANT DENSITY CALCULATIONS WHEN MIXING STOCK SIZE.

AFFORESTATION PLAN

THE AFFORESTATION AREA WILL BE PLACED INTO A FOREST CONSERVATION EASEMENT.

A. PLANTING PLAN AND METHODS

PLANT SPECIES SELECTION WAS BASED ON OUR KNOWLEDGE REGARDING PLANT COMMUNITIES IN MARYLAND'S PIEDMONT PLATEAU AND INFORMATION PROVIDED IN THE SOIL SURVEY ON TYPICAL VEGETATION FOR THE SOIL TYPE ON THE PLANTING SITE. SPECIES SELECTION WAS ALSO BASED ON OUR KNOWLEDGE OF PLANT AVAILABILITY IN THE NURSERY INDUSTRY.

PRIOR TO PLANTING THE PROPOSED FOREST CONSERVATION EASEMENTS ALL MULTIFLORA ROSE IN THE PLANTING AREA SHALL BE REMOVED. REMOVAL OF THE ROSE MAY BE PERFORMED WITH MOWING AND HERBICIDE TREATMENTS. PHYSICAL REMOVAL OF ALL TOP GROWTH FOLLOWING BY A PERIODIC HERBICIDE TREATMENT OF STUMP SPROUTS IS RECOMMENDED. NATIVE TREE AND SHRUB SPECIES OCCURRING WITHIN THE ROSE THICKETS SHOULD BE RETAINED WHEREVER POSSIBLE. HERBICIDES TREATMENTS SHALL OCCUR ON 2 MONTH INTERVALS DURING THE FIRST GROWING SEASON AND ONCE EACH IN THE SPRING AND FALL FOR SUBSEQUENT YEARS. HERBICIDE USED SHALL BE MADE SPECIFICALLY TO ADDRESS WOODY PLANT MATERIAL AND SHALL BE APPLIED AS PER MANUFACTURERS' SPECIFICATIONS. CARE SHOULD BE TAKEN NOT TO SPRAY PLANTED TREES OR NATURALLY OCCURRING NATIVE TREE/SHRUB SEEDLINGS. IT IS RECOMMENDED THAT INITIATION OF ROSE REMOVAL BEGIN AT LEAST SIX MONTHS PRIOR TO PLANTING.

B. PLANTING AND SOIL SPECIFICATIONS

PLANT MATERIAL WILL BE INSTALLED IN ACCORDANCE WITH THE PLANTING DETAIL AND PLANTING SPECIFICATIONS SHOWN ON THE FOREST CONSERVATION PLAN.

AMENDMENTS TO EXISTING SOIL WILL BE IN ACCORDANCE WITH THE PLANTING SPECIFICATIONS SHOWN ON THE FOREST CONSERVATION PLAN. SOIL DISTURBANCE WILL BE LIMITED TO INDIVIDUAL PLANTING LOCATIONS.

C. GUARANTEE REQUIREMENTS

A 90 PERCENT SURVIVAL RATE OF THE AFFORESTATION PLANTINGS WILL BE REQUIRED AFTER ONE GROWING SEASON. ALL PLANT MATERIAL BELOW THE 90 PERCENT SURVIVAL THRESHOLD WILL BE REPLACED AT THE BEGINNING OF THE SECOND GROWING SEASON. AT THE END OF THE SECOND GROWING SEASON, A 75 PERCENT SURVIVAL RATE WILL BE REQUIRED. ALL PLANT MATERIAL BELOW THE 75 PERCENT SURVIVAL THRESHOLD WILL BE REPLACED BY THE BEGINNING OF THE NEXT GROWING SEASON.

D. SECURITY FOR AFFORESTATION

SECTION 16-1209 OF THE HOWARD COUNTY FOREST CONSERVATION ACT REQUIRES THAT A DEVELOPER SHALL POST A SECURITY (BOND, LETTER OF CREDIT, ETC.) WITH THE COUNTY TO INSURE THAT ALL WORK IS DONE IN ACCORDANCE WITH THE FCP.

NOTE: TOTAL AREA OF FOREST CONSERVATION MITIGATION BANK AREA IS 16.6 ACRES (13.16 ACRES OF RETENTION AND 3.44 ACRES OF AFFORESTATION) LOCATED WITHIN THREE FOREST CONSERVATION EASEMENTS. THE TOTAL SURETY REQUIRED FOR THE AFFORESTATION PORTION OF THE BANK IS \$74,923 WHICH WILL BE POSTED AS PART OF THE DEVELOPERS AGREEMENT FOR THIS PLAN.

CONSTRUCTION PERIOD PROTECTION PROGRAM

- A. FOREST PROTECTION TECHNIQUES
1. SOIL PROTECTION AREA (CRITICAL ROOT ZONE)
THE SOIL PROTECTION AREA, OR CRITICAL ROOT ZONE, OF A TREE IS THAT PORTION OF THE SOIL COLUMN WHERE MOST OF ITS ROOTS MAY BE FOUND. THE MAJORITY OF ROOTS RESPONSIBLE FOR WATER AND NUTRIENT UPTAKE ARE LOCATED JUST BELOW THE SOIL SURFACE. TEMPORARY FENCING SHALL BE PLACED AROUND THE CRITICAL ROOT ZONE OF THE FOREST IN AREAS WHERE THE FOREST LIMITS OCCUR WITHIN 25 FEET OF THE LIMIT OF DISTURBANCE.
 2. FENCING AND SIGNAGE
EXISTING FOREST LIMITS OCCURRING WITHIN 25 FEET OF THE LIMITS OF DISTURBANCE SHALL BE PROTECTED USING TEMPORARY PROTECTIVE FENCING. PERMANENT SIGNAGE SHALL BE PLACED AROUND THE AFFORESTATION AREA PRIOR TO PLANT INSTALLATION, AS SHOWN ON THE PLAN.
 3. PRE-CONSTRUCTION MEETING
UPON STAKING OF LIMITS OF DISTURBANCE A PRE-CONSTRUCTION MEETING WILL BE HELD BETWEEN THE DEVELOPER, CONTRACTOR AND APPROPRIATE COUNTY INSPECTOR. THE PURPOSE OF THE MEETING WILL BE TO VERIFY THAT ALL SEDIMENT CONTROL IS IN ORDER, AND TO NOTIFY THE CONTRACTOR OF POSSIBLE PENALTIES FOR NON-COMPLIANCE WITH THE FCP.
 4. STORAGE FACILITIES/EQUIPMENT CLEANING
ALL EQUIPMENT STORAGE, PARKING, SANITARY FACILITIES, MATERIAL STOCKPILING, ETC. ASSOCIATED WITH CONSTRUCTION OF THE PROJECT WILL BE RESTRICTED TO THOSE AREAS OUTSIDE OF THE PROPOSED FOREST CONSERVATION EASEMENT. CLEANING OF EQUIPMENT WILL BE LIMITED TO AREA WITHIN THE LOD OF THE PROPOSED HOMESITES. WASTEWATER RESULTING FROM EQUIPMENT CLEANING WILL BE CONTROLLED TO PREVENT RUNOFF INTO ENVIRONMENTALLY SENSITIVE AREAS.
 5. SEQUENCE OF CONSTRUCTION
THE FOLLOWING TIMETABLE REPRESENTS THE PROPOSED TIMETABLE FOR THE PROJECT. BELOW FOLLOWS A PROPOSED SEQUENCE OF CONSTRUCTION.
 1. BEGIN MULTIFLORA ROSE REMOVAL. INSTALL PERMANENT PROTECTIVE SIGNAGE FOR EASEMENTS AND INITIATE PLANTINGS IN ACCORDANCE WITH FOREST CONSERVATION PLAN.
 2. HOLD POST-CONSTRUCTION MEETING WITH COUNTY INSPECTORS TO ASSURE COMPLIANCE WITH FCP. SUBMIT CERTIFICATION OF INSTALLATION.
 3. MONITOR AND MAINTAIN PLANTINGS FOR 2 YEARS.
 6. CONSTRUCTION MONITORING
ECO-SCIENCE PROFESSIONALS, OR ANOTHER QUALIFIED PROFESSIONAL DESIGNATED BY THE DEVELOPER, WILL MONITOR CONSTRUCTION OF THE PROJECT TO ENSURE THAT ALL ACTIVITIES ARE IN COMPLIANCE WITH THE FOREST CONSERVATION PLAN.
 7. POST-CONSTRUCTION MEETING
UPON COMPLETION OF CONSTRUCTION, ECO-SCIENCE PROFESSIONALS, OR ANOTHER QUALIFIED PROFESSIONAL DESIGNATED BY THE DEVELOPER, WILL NOTIFY THE COUNTY THAT CONSTRUCTION HAS BEEN COMPLETED AND ARRANGE FOR A POST-CONSTRUCTION MEETING TO REVIEW THE PROJECT SITE. THE MEETING WILL ALLOW THE COUNTY INSPECTOR TO VERIFY THAT AFFORESTATION PLANTINGS HAVE BEEN INSTALLED.

POST-CONSTRUCTION MANAGEMENT PLAN

HOWARD COUNTY REQUIRES A TWO YEAR POST-CONSTRUCTION MANAGEMENT PLAN BE PREPARED AS PART OF THE FOREST CONSERVATION PLAN. THE PLAN GOES INTO EFFECT UPON ACCEPTANCE OF THE CONSTRUCTION CERTIFICATION OF COMPLETION BY THE COUNTY. ECO-SCIENCE PROFESSIONALS, OR ANOTHER QUALIFIED PROFESSIONAL DESIGNATED BY THE DEVELOPER, WILL BE RESPONSIBLE FOR IMPLEMENTATION OF THE POST-CONSTRUCTION MANAGEMENT PLAN.

- THE FOLLOWING ITEMS WILL BE INCORPORATED INTO THE PLAN:
- A. FENCING AND SIGNAGE
PERMANENT SIGNAGE INDICATING THE LIMITS OF THE RETENTION/AFFORESTATION AREAS TO BE PLACED IN FOREST CONSERVATION EASEMENTS SHALL BE MAINTAINED.
 - B. GENERAL SITE INSPECTIONS/MAINTENANCE OF PLANTINGS
SITE INSPECTIONS WILL BE PERFORMED A MINIMUM OF THREE TIMES DURING THE GROWING SEASON. THE PURPOSE OF THE INSPECTIONS WILL BE TO ASSESS THE HEALTH OF THE AFFORESTATION PLANTINGS. APPROPRIATE MEASURES WILL BE TAKEN TO RECTIFY ANY PROBLEMS WHICH MAY ARISE.
- IN ADDITION, MAINTENANCE OF THE AFFORESTATION PLANTINGS WILL INVOLVE THE FOLLOWING STEPS:
1. WATERING - ALL PLANT MATERIAL SHALL BE WATERED TWICE A MONTH DURING THE 1ST GROWING SEASON, MORE OR LESS FREQUENTLY DEPENDING ON WEATHER CONDITIONS. DURING THE SECOND GROWING SEASON, ONCE A MONTH DURING MAY-SEPTEMBER, IF NEEDED.
 2. REMOVAL OF INVASIVE EXOTICS AND NOXIOUS WEEDS. OLD FIELD SUCCESSIONAL SPECIES WILL BE RETAINED.
 3. IDENTIFICATION OF SERIOUS PLANT PESTS AND DISEASES. TREATMENT WITH APPROPRIATE AGENT.
 4. PRUNING OF DEAD BRANCHES.
 5. AFTER 12 AND 24 MONTHS, REPLACEMENT OF PLANTS, IF REQUIRED, IN ACCORDANCE WITH THE GUARANTEE REQUIREMENTS SHOWN ON THE FCP.
- C. EDUCATION
THE BANK DEVELOPER WILL PROVIDE APPROPRIATE MATERIALS TO SUBSEQUENT PROPERTY OWNERS INFORMING THEM OF THE LOCATION AND PURPOSE OF THE FOREST CONSERVATION EASEMENTS ON THE PROPERTY. MATERIALS MAY INCLUDE SITE PLANS AND INFORMATION EXPLAINING THE INTENT OF THE FOREST CONSERVATION LAW.
 - D. FINAL INSPECTION
AT THE END OF THE TWO YEAR POST-CONSTRUCTION MANAGEMENT PERIOD, ECO-SCIENCE PROFESSIONALS, OR ANOTHER QUALIFIED PROFESSIONAL, WILL SUBMIT TO THE ADMINISTRATOR OF THE HOWARD COUNTY FOREST CONSERVATION PROGRAM CERTIFICATION THAT ALL RETENTION/AFFORESTATION REQUIREMENTS HAVE BEEN MET. UPON ACCEPTANCE OF THIS CERTIFICATION, THE COUNTY WILL RELEASE THE DEVELOPER FROM ALL FUTURE OBLIGATIONS AND RELEASE THE DEVELOPER'S BOND.

OWNER/DEVELOPER

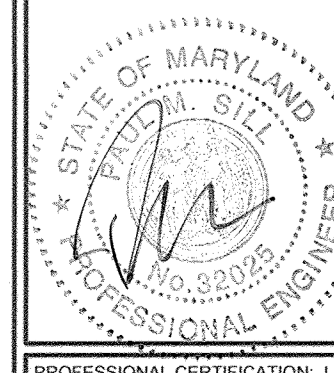
PARCEL 22 & 24
WILLIAM MORGAN ADAMS JR. & MONICA LYNN ADAMS
15015 KENWOOD COURT
WOODBINE, MD 21797
443.510.0527

FINAL FOREST CONSERVATION NOTES AND DETAILS MILLER'S MILL PROPERTY FOREST CONSERVATION MITIGATION BANK ZONED: RC-DEO

TAX MAP 14 GRID 3 ASSOCIATED FILE NO. F-18-075 P/O PARCEL 22 & PARCEL 24
4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

MD DNR Qualified Professional
USACOE Wetland Delineator
Certification # MD093MD061004482
John P. Canoles Date: 4/19/19

Ec-Science Professionals, Inc.
Consulting Ecologists
P.O. Box 2090 Clon, Maryland 21017 Telephone (410) 532-2801 Fax (410) 532-1010



SILL ENGINEERING GROUP, LLC
11130 Dovecloud Court, Suite 200
Marristown, Maryland 21104
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: JCI/PS
DRAWN BY: AEA
CHECKED BY: PS
SCALE: AS SHOWN
DATE: APRIL 8, 2019
PROJECT #: 16-016
SHEET #: 3 of 3

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Director Date: 6-19-19
CHIEF, DIVISION OF LAND DEVELOPMENT
Date: 4-29-19
CHIEF, DEVELOPMENT ENGINEERING DIVISION

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT