M-NCPPC APPROVAL STAMP

| Size | Number Required [1] (per acre) | Approximate Spacing [2] (feet on center) | Survival Requirement [3] (at the end of the second growing season) |
|---|---|---|---|
| **TREES** | | | |
| 3/4-1" Caliper, B&B or Container Grown (Minimum 5 Gallon) | 200 | 12 to 15 | 75% or 150/acre [4] |
| 1.5-2" Caliper, B&B or Container Grown (Minimum 15 Gallon) | 100 | 15 to 20 | 100% or 100/acre [5] |
| **SHRUBS** | | | |
| Container Grown, 18-24" Height | 33 | (6) | |

**Notes:**

[1] In certain circumstances, any combination of the above mentioned stocking options may be appropriate strategies to fulfill the requirements of an approved Forest Conservation Plan. Instances where the use of combination planting may be appropriate are described in the *Trees Technical Manual*. Use of alternative stocking will be evaluated, along with necessary protection and maintenance measures, on a case-by-case basis by the Planning Board.

[2] Spacing does not imply that trees or shrubs must be planted in a grid pattern although it may be necessary for mowing to control invasive vegetation or otherwise reduce competition for the planted tree.

[3] If tree survival at the end of the maintenance period falls below the survival requirements, reinforcement planting up to that amount will be required. If tree survival falls below 50% of the total trees planted, extension of the maintenance period will be required in addition to reinforcement planting. Natural regeneration may be counted toward survival requirements, in addition to the required planting, on a case-by-case basis as determined by the Planning Director.

[4] Surviving trees must be at least 1" caliper to receive full credit toward survival requirements. Reinforcement planting must be 1" trees. All trees to be accepted must be healthy and have the main leader intact with minimal deer browse.

[5] Surviving trees must be at least 2" caliper to receive full credit toward survival requirements. Reinforcement planting must be 2" trees. All trees to be accepted must be healthy and have the main leader intact with minimal deer browse.

[6] Shrubs should be evenly distributed over the planting area and among the trees.. On a case-by-case basis, shrubs may be substituted with native trees particularly when there is evidence of deer predation or high incidence of non-native and invasive plants and materials.

TREE PLANTING AND MAINTENANCE CALENDAR

| TASKS | MONTHS: JAN | FEB | MAR | APR | MAY | JUNE | JULY | AUG | SEPT | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TRANSPLANT OF 2" DBH OR GREATER | ▬ | | | | | | | | ▬ | | | |
| PLANTING SEEDINGS, WHIPS | ▬ | | | | | | | | ▬ | | | |
| MINIMUM MONITORING | * | | | | | * | | | * | | | |
| FERTILIZER + (IF NEEDED) | | | | | | | ▬ | | | | | |
| WATER ++ | ▬ | | | | | | | | | | | |
| PRUNING | ▬ | | | | | ▬ | | | | | ▬ | |

KEY

* ACTIVITIES DURING THESE MONTHS ARE DEPENDENT UPON GROUND CONDITIONS

▬ GREATLY RECOMMENDED

▬ RECOMMENDED WITH ADDITIONAL CARE

▭ RECOMMENDED

\+ DEPENDANT UPON SITE CONDITIONS

++ DEPENDANT UPON SITE CONDITIONS: WEEKLY WATERING IS GREATLY RECOMMENDED FROM MAY THROUGH OCTOBER UNLESS WEEKLY RAINFALL EQUALS 1"

NOTE:

The planting and care of trees is most successful when coordinated with the local climatic conditions. This calendar summarizes some of the recommended time frames for basic reforestation and stress reduction activities.

# FOREST CONSERVATION TABULATIONS

| | |
|---|---|
| TOTAL AFFORESTATION REQUIRED: | 1.50 AC. (PER WORKSHEET ON SHEET 6) |
| TOTAL AFFORESTATION PROVIDED: | 1.50 AC. (1:1)<br>(AFFORESTATION AREA #1: 1.14 ACRES)<br>(AFFORESTATION AREA #2: 0.36 ACRES) |
| TOTAL TREES REQUIRED: | 300 TREES (200 TREES X 1.50 ACRES) |
| TOTAL TREES PROPOSED: | 300 TREES |
| TOTAL SHRUBS REQUIRED: | 50 SHRUBS (33 SHRUBS X 1.50 ACRES) |
| TOTAL SHRUBS PROPOSED: | 50 SHRUBS |

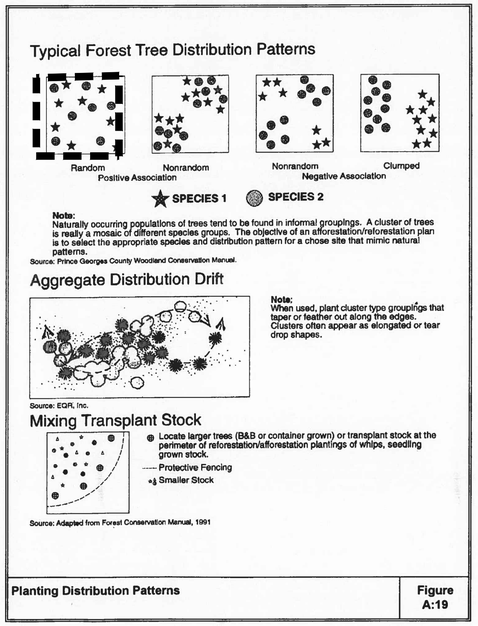
NOTES:
AFFORESTATION TREE PLANTING AREAS SHOULD HAVE AN 75% SURVIVAL RATE AT THE END OF THE FIFTH (5TH) GROWING SEASON (SEE FIGURE A:18). TREES SHALL BE PLANTED IN A RANDOM DISTRIBUTION (SEE FIGURE A:19). TREES SHALL BE PLANTED IN ACCORDANCE WITH THE TREE PLANTING AND MAINTENANCE CALENDAR AND TREE STAKING AND GUYING SPECIFICATIONS PROVIDED ON THIS SHEET. TREES SHALL BE PLANTED IN AFFORESTATION AREAS AS SPECIFIED ON SHEET 4.

## AFFORESTATION AREA #1
## PLANT SCHEDULE (1.14 ACRES)

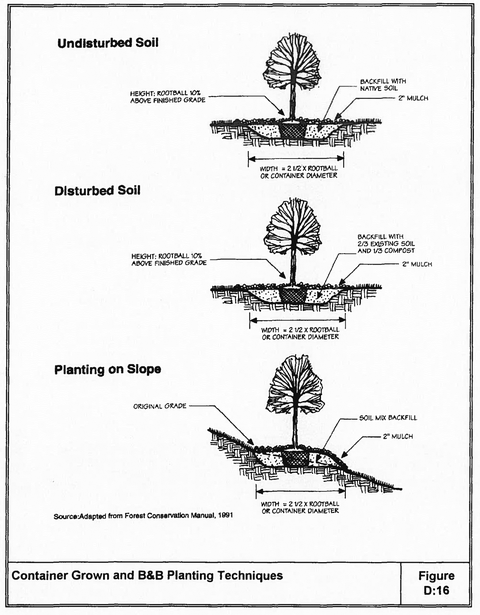
| KEY | QTY. | BOTANICAL NAME | COMMON NAME | SIZE | CONDITION | NATIVE |
|---|---|---|---|---|---|---|
| DECIDUOUS TREES | | | | | | |
| AC | 38 | AMELANCHIER ARBOREA | SERVICEBERRY | 1" CAL. | B & B | NATIVE |
| CA | 38 | CARPINUS CAROLINIANA | IRONWOOD | 1" CAL. | B & B | NATIVE |
| CC | 38 | CERCIS CANADENSIS | EASTERN REDBUD | 1" CAL. | B & B | NATIVE |
| CF | 38 | CORNUS FLORIDA | FLOWERING DOGWOOD | 1" CAL. | B & B | NATIVE |
| MV | 38 | MAGNOLIA VIRGINIANA | SWEETBAY MAGNOLIA | 1" CAL. | B & B | NATIVE |
| SA | 38 | SASSAFRAS ALBIDUM | SASSAFRAS | 1" CAL. | B & B | NATIVE |
| TOT: 228 TREES | | | | | | |
| SHRUBS | | | | | | |
| IV | 19 | ITEA VIRGINICA | VIRGINIA SWEETSPIRE | 18"–24" | CONT. | NATIVE |
| VA | 19 | VIBURNUM ACERIFOLIUM | MAPLELEAF VIBURNUM | 18"–24" | CONT. | NATIVE |
| TOT: 38 SHRUBS | | | | | | |

## AFFORESTATION AREA #2
## PLANT SCHEDULE (0.36 ACRES)

| KEY | QTY. | BOTANICAL NAME | COMMON NAME | SIZE | CONDITION | NATIVE |
|---|---|---|---|---|---|---|
| DECIDUOUS TREES | | | | | | |
| AC | 12 | AMELANCHIER ARBOREA | SERVICEBERRY | 1" CAL. | B & B | NATIVE |
| CA | 12 | CARPINUS CAROLINIANA | IRONWOOD | 1" CAL. | B & B | NATIVE |
| CC | 12 | CERCIS CANADENSIS | EASTERN REDBUD | 1" CAL. | B & B | NATIVE |
| CF | 12 | CORNUS FLORIDA | FLOWERING DOGWOOD | 1" CAL. | B & B | NATIVE |
| MV | 12 | MAGNOLIA VIRGINIANA | SWEETBAY MAGNOLIA | 1" CAL. | B & B | NATIVE |
| SA | 12 | SASSAFRAS ALBIDUM | SASSAFRAS | 1" CAL. | B & B | NATIVE |
| TOT: 72 TREES | | | | | | |
| SHRUBS | | | | | | |
| IV | 6 | ITEA VIRGINICA | VIRGINIA SWEETSPIRE | 18"–24" | CONT. | NATIVE |
| VA | 6 | VIBURNUM ACERIFOLIUM | MAPLELEAF VIBURNUM | 18"–24" | CONT. | NATIVE |
| TOT: 12 SHRUBS | | | | | | |




**Planting Distribution Patterns** — **Figure A:19**




**Container Grown and B&B Planting Techniques** — **Figure D:16**

NOTES:

1. **PLANTING PIT SIZES SHOULD BE MINIMIZED WHEN PLANTING NEAR THE ROOTS OF EXISTING SPECIMEN & SIGNIFICANT TREES. ALL PLANTINGS ARE TO BE PERFORMED BY HAND IN SUCH LOCATIONS.
2. **PLANTING PIT LOCATIONS SHALL BE SHIFTED IN FIELD TO AVOID ANY EXISTING TREE ROOTS THAT ARE ENCOUNTERED DURING INSTALLATION.

**DEVELOPER'S CERTIFICATE**

The undersigned agrees to execute all the features of Approved Final Forest Conservation Plan No. TBD, including financial bonding, forest planting, maintenance, and all other applicable agreements.

Developer's Name: FREE REIN SOLAR FARM, LLC (Printed Company Name)
Contact Person or Owner: MICHAEL CHAPMAN (Printed Name)
Address: 4611 SLEAFORD ROAD, BETHESDA, MD 20814
Phone and Email: 301-442-9712, MC@FREEREINSOLAR.COM
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FINAL FOREST CONSERVATION NOTES & DETAILS (2 OF 4)

5011 RIGGS ROAD

WSSC GRID #229NW05, 230NW05 & 230NW04
TAX MAP: HV21, GRID: 0000, PARCEL: P200
MONTGOMERY COUNTY, MARYLAND

STATE OF MARYLAND — GREGG D. GDULA — No. 1703 — REGISTERED LANDSCAPE ARCHITECT
02/07/23

| PLAN STATUS | |
|---|---|
| 9/12/22 | 1ST SUBMISSION |
| 2/07/23 | 2ND SUBMISSION |

| DATE | DESCRIPTION | |
|---|---|---|
| GDE DESIGN | GDE DRAWN | GDE CHKD |

SCALE H: N/A V: N/A

JOB No. 140233-01-002

DATE : FEBRUARY, 2023

FILE No.