

worksheet date

* T42 & T43 Were planted as mitigation for FCP Amendment 2, they are included in the acreage

calculation for mitigation for impacts to Forest Stand 2

7/2/2021

CONSULTING ENGINEERS

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SEAL & SIGNATUR



ARUP

Arup USA, Inc. 1120 Connecticut Avenue NW Suite 1110 Washington, DC 20036 USA

MONTGOMERY COUNTY BROOKVILLE BUS DEPOT 8710 BROOKVILLE RD SILVER SPRING, MD 20910

FINAL FOREST CONSERVATION PLAN AMENDMENT

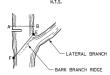
Scale 1" = 50' Date JUNE, 2021

Sheet 3 OF 4

HARDWOODS CONIFERS-FOR LIVING OR DEAD BRANCH

dercutting at A and remove limb by cutting through AB. (een branch bark ridge and outer edge of branch collar)

n narawoods, Id be the reflective angle of the bark branch ridge to the trunk



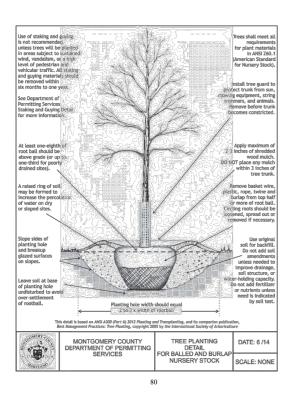
Remove top weight by undercutting at A and remove limb by cutting through AB.

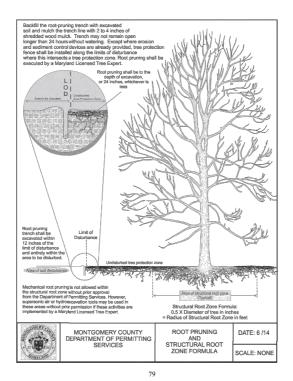
Remove the property of the bark bronch ridge.

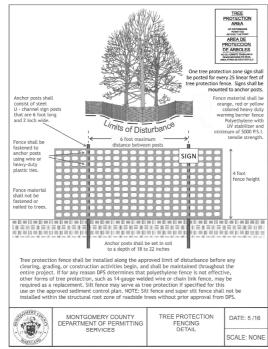
3. Only prune at specified times.

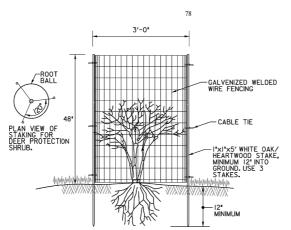
4. No more than 30% of the crown to be removed at one time.

PRUNING A LEADER TO REDUCE SIZE









DEER PROTECTION - SHRUB & EVERGREEN TREE

- I. UP TO 2" OF SOIL CAN BE MOUNDED AROUND THE OUTSIDE OF TREE SHELTER.
- 2. REFER TO DEER PROTECTION SPECIFICATION FOR ADDITIONAL INFORMATION.

			KEE	INVENIO	PRY TABLE	
Tree ID	Scientific Name	Common Name	DBH	Condition	Comments	Remove
T1	Populus deltoides	Eastern cottonwood	16	Poor	90 degree bend in trunk, top may be dead, vines	No
T2	Acer negundo	Boxelder	9	Fair-Poor	Many water sprouts, vine in canopy. Additional 5 inch trunk	No
T3	Robinia pseudoacacia	Black locust	13	Fair	Some broken branches	No
T4	Acer negundo	Boxelder	9	Fair	Few water sprouts, healed trunk wound	No
T5	Acer negundo	Boxelder	8	Fair-Poor	Large broken branch, many water sprouts	No
T6	Acer negundo	Boxelder	12	Fair	Dead lower branches, one sided	No
T7	Acer saccharinum	Silver maple	7	Fair	Thin crown	No
T8	Acer saccharinum	Silver maple	8	Fair	Bend in trunk, water sprouts	No
T9	Acer saccharinum	Silver maple	9	Fair	Vines in crown, trunk splits above DBH, one sided	No
T11	Robinia pseudoacacia	Black locust	6	Fair	Few dead branches, thin crown. Additional 4 inch trunk	No
T10	Acer saccharinum	Silver maple	15	Poor	Broken leader	No
T12	Robinia pseudoacacia	Black locust	9	Poor	Top cut off, trunk grown into fence	No
T13	Ailanthus altissima	Tree-of-heaven	7	Fair-Poor	Heavy vines on trunk, dead tree leaning against trunk	Yes
T14	Robinia pseudoacacia	Black locust	7	Fair-Poor	Significant lean, dead branches	No
T15	Acer saccharinum	Silver maple	9	Poor	90 degree bend in trunk, lean, dead branches, trunk grown through fence	No
T16	Acer negundo	Boxelder	17	Fair	Bend in trunk, few trunk sprouts	No
T17	Acer saccharinum	Silver maple	19	Fair	Thin crown, few vines	No
T18	Acer rubrum	Red maple	7	Poor	Trunk decay, barbed wire growing through trunk	No
T19	Acer rubrum	Red maple	11	Fair	Lean, few dead branches	No
T20	Acer rubrum	Red maple	6	Fair-Poor	Significant lean, large vine on trunk, broken branches	No
T21	Acer rubrum	Red maple Silver maple	6 7	Fair-Poor	Significant lean, dead branches, vines in crown	No
T22 T23	Acer saccharinum	Silver maple Silver maple	24	Fair-Poor Fair	Significant bend in leader, fence growing into trunk Irregular growth form, vines on second trunk, second trunk leaning, Additional 7 inch trunk	No
T24	Acer saccharinum	Silver maple		Fair	Vines in lower canopy, slight lean, irregular crown	No No
T25	Acer saccharinum Acer negundo	Boxelder	11	Fair-Poor	Severe lean, trunk wound vines in canopy	Yes
T26	Acer negundo	Boxelder	7	Poor Poor	Dead secondary leader, many dead branches, lean, included bark	Yes
T27	Liquidambar styraciflua	Sweetgum	8	Fair	One sided, several dead branches	No.
T28	Liquidambar styraciflua	Sweetgum	9	Fair	One sided, vines in lower crown, broken branches	No
T29	Platanus occidentalis	American sycamore	7	Fair-Poor	Crown overlopped by vines, included bark. Additional 7 & 6 inch trunks	Yes
T30	Liquidambar styraciflua	Sweetgum	9	Fair-Good	Dead lower branches, some broken branches	No
T31	Liquidambar styraciflua	Sweetgum	6	Fair	Damaged by tree fall, dead lower branches	No
T32	Liquidambar styraciflua	Sweetgum	6	Fair-Good	Lower dead branches	No
T33	Liquidambar styraciflua	Sweetgum	6	Fair-Poor	Vines on lower branches, healed 1,5' trunk wound	No
T34	Liquidambar styraciflua	Sweetgum	7	Fair	Vines in lower branches, several broken branches	No
T35	Liquidambar styraciflua	Sweetgum	8	Fair-Good	Lower broken branches	No
T36	Liquidambar styraciflua	Sweetgum	8	Fair	Vines in crown, moderate dead branches	No
T37	Liquidambar styraciflua	Sweetgum	7	Fair	Vines in mid canopy, several broken branches	No
T38	Liquidambar styraciflua	Sweetgum	6	Fair	Vines in lower branches, some dead lower branches	No
T39	Liquidambar styraciflua	Sweetgum	6	Fair	Vines in crown, few dead branches	Yes
T40	Acer rubrum	Red maple	9	Fair	Vines in crown, lower dead branches	Yes
T41	Liquidambar styraciflua	Sweetgum	9	Fair-Poor	Heavy vines on trunk and canopy, broken branches	Yes
T42	Acer saccharum	Sugar maple	7	Fair	Vines in crown, included bark	Yes
T43	Acer saccharum	Sugar maple	7	Fair-Poor	Tree has grown over guy wire and is partially girdled, included bark	Yes
T44	Liquidambar styraciflua	Sweetgum	10	Fair	One sided, dead lower branches	Yes
T45	Acer rubrum	Red maple	7	Fair-Good	Bend in trunk	Yes
T46	Liquidambar styraciflua	Sweetgum	10	Fair-Good	Few dead lower branches, few trunk sprouts	Yes
T47	Liquidambar styraciflua	Sweetgum	8	Fair-Good	Small healed-over trunk damage, broken lower branch	Yes
T48	Liquidambar styraciflua	Sweetgum	6	Fair	Few dead branches, trunk wound	No
T49	Liquidambar styraciflua	Sweetgum	8	Fair	Moderate dead branches, several trunk sprouts, one sided	Yes
T50	Liquidambar styraciflua	Sweetgum	8	Fair	Dead lower branches, few vines on trunk	Yes
T51	Liquidambar styraciflua	Sweetgum	6	Fair	Thin crown, vines on upper trunk, one sided, few dead branches	No
T52	Acer rubrum	Red maple	12	Fair-Good	Splits above DBH, included bark	No
T53	Liquidambar styraciflua	Sweetgum	9	Fair-Good	Included bark, splits above DBH, few dead branches	No
T54	Liquidambar styraciflua	Sweetgum	8	Good		No
T55	Liquidambar styraciflua	Sweetgum	8	Fair	Vines in lower canopy, few dead branches	No
T56	Liquidambar styraciflua	Sweetgum	6	Fair-Good	Dead lower branches, twin trunk, some included bark. Additional 5" trunk	No
T57	Liquidambar styraciflua	Sweetgum	7	Fair	Dead lower branches, vines in lower canopy, twin trunk above DBH	No
T58	Liquidambar styraciflua	Sweetgum	7	Fair	Moderate dead branches, one sided	Yes
T59	Liquidambar styraciflua	Sweetgum	6	Fair-Good	Few dead branches	Yes
T60	Liquidambar styraciflua	Sweetgum	7	Fair-Good	Moderate dead branches	No
T61	Liquidambar styraciflua	Sweetgum	7	Good		No
T62	Liquidambar styraciflua	Sweetgum	6	Good		No
T63	Acer negundo	Boxelder	10	Fair-Good	Few trunk sprouts, splits above DBH	No
T64	Liquidambar styraciflua	Sweetgum	7	Good	Some included bark, splits above DBH	No
T65	Liriodendron tulipifera	Tulip poplar	42	Poor	Hollow trunk, significant lean, heavy vines in crown, tree is dying	No
T66	Quercus rubra	Northern red oak	35	Fair	Heavy vines on trunk, few large dead branches	No
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TREE CONDITION ASSESSMENT GUIDELINES

34 Fair

EXCELLENT - healthy tree with exceptional growth form; no visible defects; well-formed crown; few minor dead branches acceptable; this

GOOD — healthy tree; very minor defects/decay acceptable with callous forming/complete; well-formed crown; minor lean and/or few minor/major dead branches acceptable; vines may be growing along trunk but not present within crown.

FAIR — health questionable/stress evident; structurally sound tree; defects present that do not affect structural integrity; moderate lean; minor/major dead branches may be present; crown not broken out but not necessarily well formed or uneven; vines may be growing along trunk and within crown.

Ex. Fair tree could be experiencing insect damage, or exhibit a growth form that makes it very susceptible to wind damage in an open

POOR — significant health problems; may be structurally unsound; may be dead or dying; may contain significant decay; may have broken or missing top/crown; may have heavy lean; vines may be significantly affecting tree health.

Note: These guidelines were developed in-house based on the professional judgment of our Certified Arborists and other senior environmental staff. These guidelines should be incorporated into documents (such as FSD's) whenever a tree assessment is conducted.

Note: Significant trees are identified as those 24-in DBH or greater. Specimen trees are those 30-in DBH or greater, or 75% of the state/county champion for that species.



MD QUALIFIED FOREST PROFESSIONAL



RUMMEL, KLEPPER & KAHL, LLP consulting engineers

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Scale N/A Date JUNE, 2021

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