

Hebron, NH

Tree Inventory

Tree Inventory

Hebron Town Common



June 6, 2016

To Whom It May Concern, this document was made as a tool, for the people of the town of Hebron. The document consists of a detailed tree analysis of each tree within the Hebron Town Common. Along with the tree analysis comes a map of the town common that locates each tree within the common. The tree analysis suggests the removal and replacement of some of the older trees and keeping and maintaining the younger trees. This site is listed as being on the National Register of Historic Sites we have endeavored to maintain the character and species of trees to keep within the parameters of its historical significance. We are recommending that as the interior trees die and/or are replaced that the new plantings be placed closer to the edges of the common to allow for more uninhibited open space on the interior of the common. To accomplish this we are recommending that a five (5) year plan be implemented and the replacement trees be no smaller than four (4) inches in caliper size to obtain an instant effect on the site. The list below is a suggested implantation five year plan starting with the trees that appear to be in the most serious decline:

Year 1: Tree #7, #12 and #14

Year 2: Tree #10 and #15

Year 3: Tree #11

Year 4: Tree #23 and #24

Year 5: Tree #28 and #29

Terrain Planning and Design recommends that the town hire a professional licensed Arborist , such as Bartlett Tree Service to establish and carryout an annual program of tree maintenance and fertilization.

Note: Until it is determined what the use of the parcel of land on the west side of West Shore Road is to be used for, Terrain Planning and Design recommends that little expense be made on trees #27 through #30. The only tree that could be considered for some tree maintenance is the 36"inch Sugar Maple and that work should only consist of clearing the secondary growth from around the tree that has grown around it.

Thank you for your time and for choosing Terrain Planning and Design.

- The Terrain Team

Tree #1
Flowering Crab Species
Malus



1. Condition - Good

2. Save or Remove - Save

a. If saved what is the treatment plan / pruning needs?

- a. a. The tree needs to be root fertilized and the crown pruned. The interior branches need to be removed. Crossing branches need to be removed, proper removal of branch stubs from previous pruning should be removed. The tree should be pruned on an annual basis as if it was a standard apple tree.

Tree #2
Flowering Crab Species
Malus 8in.cal.



1. Condition - Good

2. Save or Remove - Save

a. If saved what is the treatment plan / pruning needs?

- a. Root fertilize, prune out crossing branches, remove any interior branches and prune off stubs that remain from a previous pruning of the tree.



Tree #3
Sugar Maple
Acer sachharum 8in.cal.



1. Condition - Excellent

2. Save or Remove - Save

a. If saved what is the treatment plan / pruning needs?

- a. Root fertilize this tree, soil aeration the soil is compact and is not allowing proper nutrients to the root area of the tree. Prune out any interior branches in the fall. Remove any branches that are lower than six (6) feet from the ground.



Tree #4
Red Oak
Quercus rubra 18in.cal.



1. Condition - Excellent

2. Save or Remove - Save

a. If saved what is the treatment plan / pruning needs?

a. Properly prune off all stubs of branches from a previous pruning.

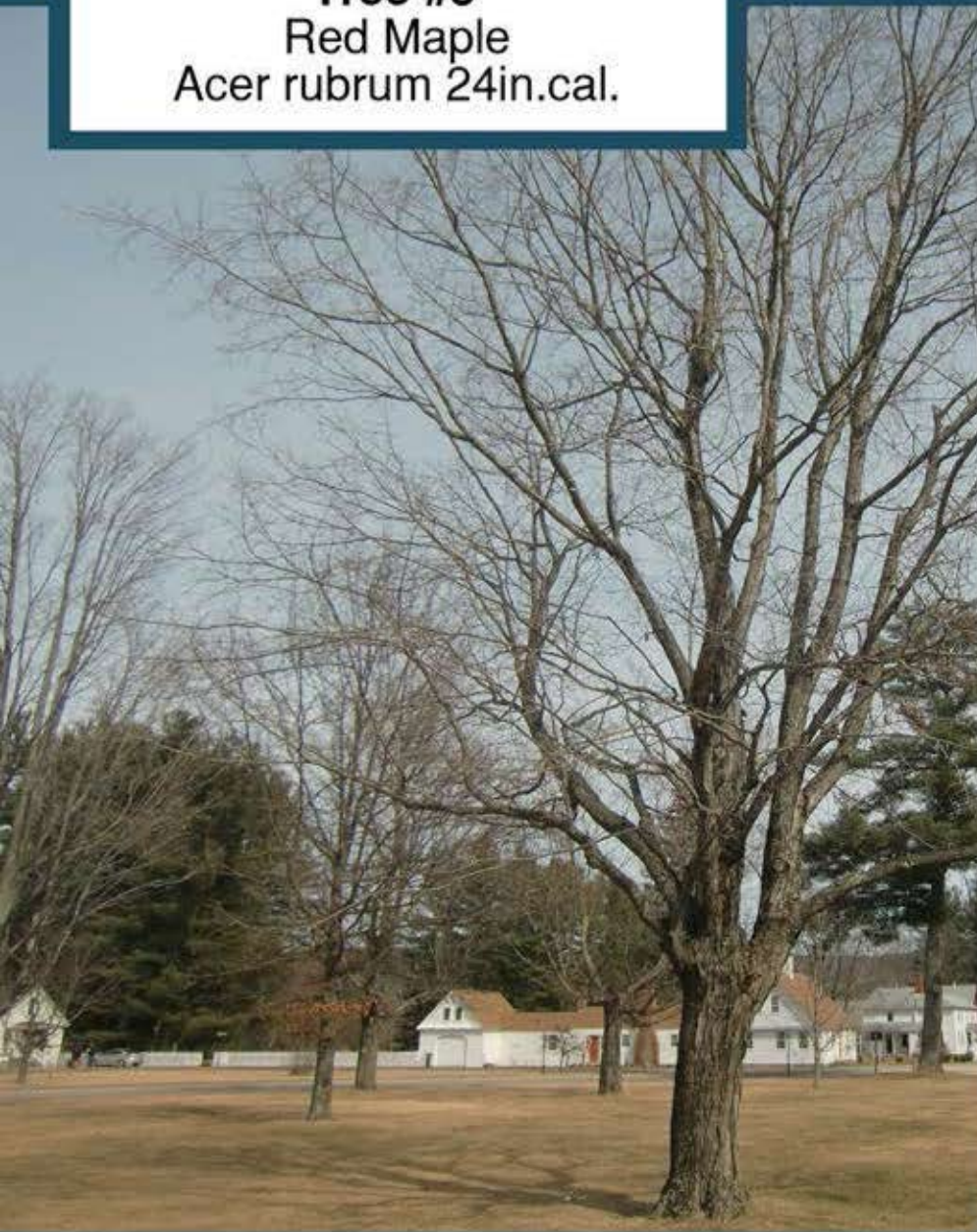
The crown of the tree should be thinned by a licensed arborist.

Eventually the two primary stems of the tree should be cabled.

The "V" crotch of the tree is a weak crotch and over time as the tree increases in size, there is concern that the tree will split at this weak spot thus the recommendation of cabling the branches. As with all the trees on the common the soil is compacted to the point that proper nutrients are not getting to the roots. Aeration and root fertilization is recommended.



Tree #5
Red Maple
Acer rubrum 24in.cal.



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1. Condition - Good condition there is some decay just starting under the 18 in side branch

2. Save or Remove - Save

a. If saved what is the treatment plan / pruning needs?

A licensed arborist should be hired to prune out the dead wood in the tree.

Aerate and fertilized the root zone of the tree.

The large 18in side stem of the tree should be cabled to the main stem of the tree to keep it from breaking off as a result of heavy snows. (bottom right picture) (Fungus top right picture).

b. If cut, what is a good replacement and where should it go?

b.Recommendation: At the time the tree is removed it should be replaced with a Burgundy Belle Red Maple Acer rubrum 'Burgundy Belle', this tree has dark green leaves during the summer turning to a red-burgundy in the fall and the fall foliage remains on the tree for a much longer period of time. The replacement tree should be planted closer to the parking lot.

Tree #6
Pin Oak
Quercus palustris 18in. cal.



1. Condition - Good

2. Save or Remove - Save

a. If saved what is the treatment plan / pruning needs?

- a.** Prune lower sprout branches from the trunk of the tree. Hire a professional arborist to thin the crown of the tree and remove any crossing branches. The stub branches from a previous pruning should be removed. Root fertilize and aerate the root zone of the tree



Tree #7
Sugar Maple
Acer saccharum 24in. cal.



1. Condition - Poor

2. Save or Remove - Remove

a. If cut, what is a good replacement and where should it go

- a.** This tree is in very poor condition. It has the potential of lasting several years but the leader has been removed and the side branches are taking over. The side branches at the moment are secure but potentially over a period of time, under the right conditions, will break off. This tree should be replaced with a Legacy Sugar Maple *Acer saccharum* 'Legacy' closer to the parking lot and in line with the existing White Pine and Tree #5.



Tree #8
Sugar Maple
Acer saccharum 8 in. cal.



1. Condition - Good

2. Save or Remove - Save

a. If saved what is the treatment plan / pruning needs?

- a.** There is some dead wood in this young tree. This is somewhat unusual for a tree this young. Some minor pruning of dead wood is needed. At some point remove the branches that are lower than six (6) feet above the ground. Root fertilize the tree and aerate the soil in the root zone of the tree



Tree #9
Eastern White Pine
Pinus strobus 36 in. cal.



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1. Condition - For a White Pine this size it appears to be in good condition.

2. Save or Remove - Save until a licensed arborist can take a core sample to determine the soundness structure of the wood.

a. If saved what is the treatment plan / pruning needs?

a. Many times Eastern White Pines this size have interior rot that makes the interior structure of the tree weak. This tree could last many more years or it could come down in the next wind storm or heavy snow. The structure of the tree is naturally weak, large branches have a tendency to break off and fall. If this tree was to come down it would most likely come down in the direction of the small Cape Style home next to "Hebron Academy". The preference is to professionally remove the tree to control the direction of fall so as not to damage property. Replace the pine with a small planting of Flowering crabs that would include the proper location of the signage, 1 *Malus* 'Lancelot' 6'-8' tall and 2 *Malus* 'Prairiefire' 15-20' tall.

Tree #10
 Sugar Maple
Acer sachharum 20 in. cal.



1. Conditon - Fair

2. Save or Remove - Remove

a. If cut, what is a good replacement and where should it go?

- a. This tree is not worth spending money on trying to salvage. It may stand for years but with the compacted soil, its life expectancy is not favorable. There is dead wood in the crown of the tree (bottm right picture) and major interior rot (top right picture) within the trunk of the tree. Recommend replacing this tree with a Lagacy Sugar Maple *Acer saccharum* 'Legacy' Heavy crown, dense foliage, heat resistant, great yellow-orange fall color. It should be planted 6' closer to North Shore Road.

Tree #11
Red Maple
Acer rubrum 32 in. cal.



1. Condition - Good to Fair

2. Save or Remove - Save Temporarily

a. If saved what is the treatment plan / pruning needs?

a. Have a licensed arborist cable the two main stems, and remove the 6" cal. side stem (bottom left picture) and remove any dead wood. Root fertilize and aerate the root area of the tree.

b. If cut, what is a good replacement and where should it go?

Eventually this tree will have to be replaced. It should be replaced with a Burgundy Belle Red Maple, *Acer rubrum* 'Burgundy Belle' and should be planted 6' closer to North Shore Road.



Tree #12
Sugar Maple
Acer saccharum



1. Condition - Very Poor

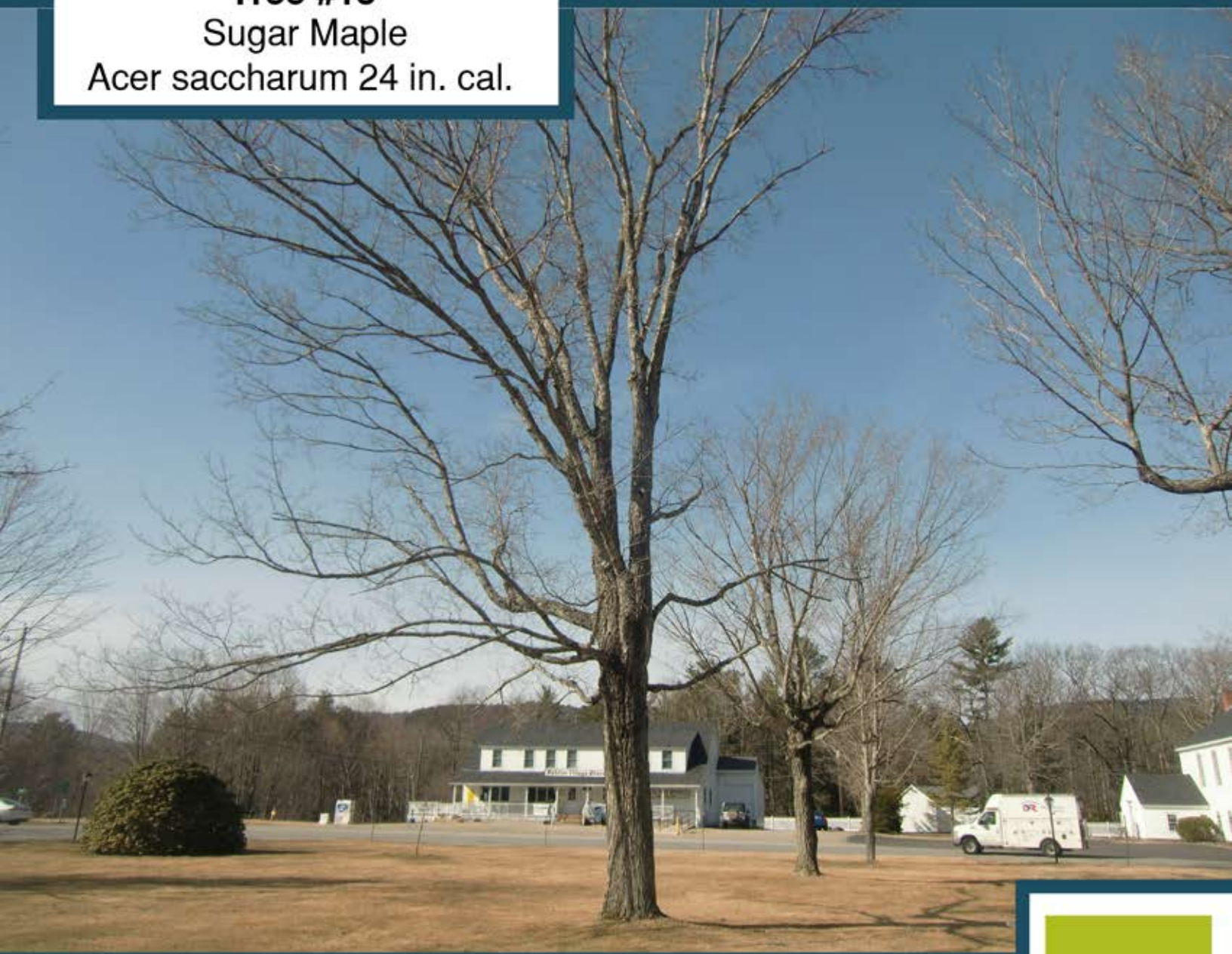
2. Save or Remove - Remove (Number 1 Priority for removal)

a. If cut, what is a good replacement and where should it go?

a. This tree should be first priority in removal. It is a hazardous tree, there is a very large branch that is almost rotted through (bottom right picture). It would take little for the branch to break off and fall to the ground or on someone passing by. It should be replaced with a Sugar Maple 'Legacy' *Acer saccharum* 'Legacy'



Tree #13
Sugar Maple
Acer saccharum 24 in. cal.



1. Condition - Good

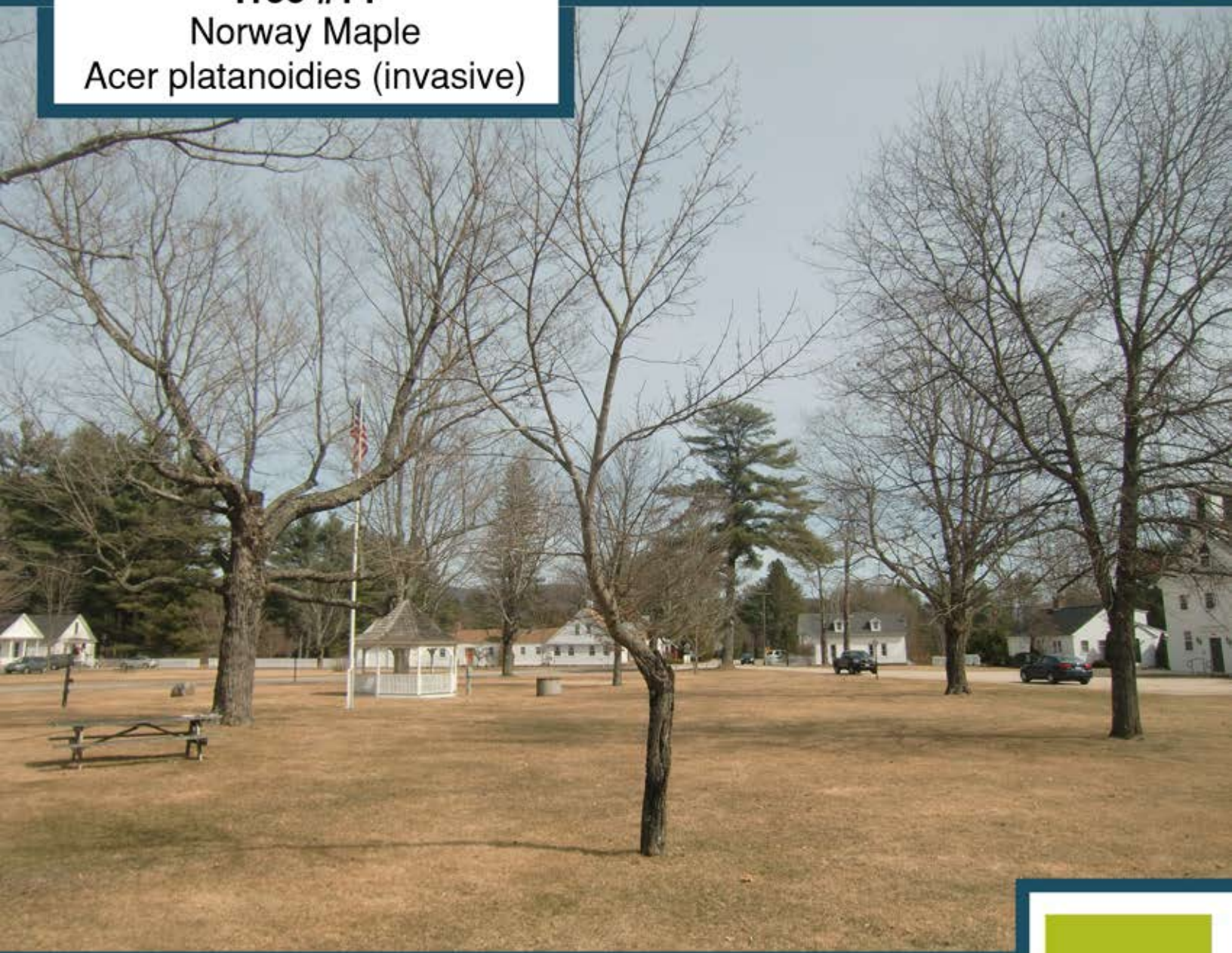
2. Save or Remove - Save

a. If saved what is the treatment plan / pruning needs?

a..Some small dead wood should be removed. Stubs from a previous pruning should be removed. Root fertilization and ground aeration around the root zone is needed.



Tree #14
Norway Maple
Acer platanoides (invasive)



1. Condition - Poor

2. Save or Remove - Remove

a. If cut, what is a good replacement and where should it go?

- a.** Replace with an *Acer rubrum* 'October Glory' October Glory Red Maple.
It should be placed in line with Tree# 3 and Tree #18



Tree #15
Sugar Maple
Acer saccharum 18 in. cal.



1. Condition - Fair

2. Save or Remove - Remove Eventually

a. If saved what is the treatment plan / pruning needs?

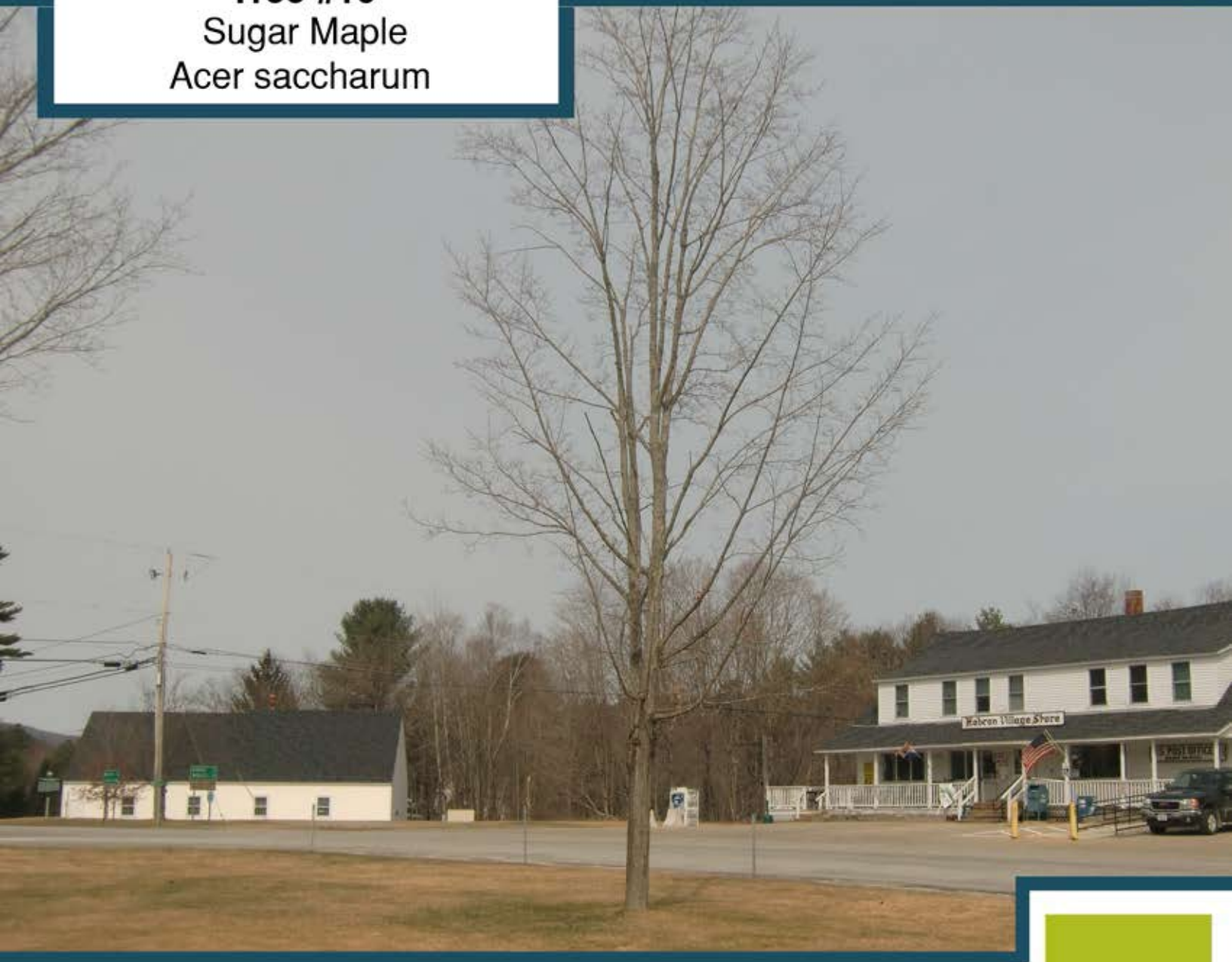
a. The outer structure of the tree is intact but there is interior rot. This tree may survive several more years but should be on the near term removal list. For the moment some basic pruning is necessary. Remove the dead wood, there is a large branch with substantial decay that should be removed before it becomes a hazard.

b. If cut, what is a good replacement and where should it go.

b. Replace this tree in the same or near the same location with Sugar Maple 'Legacy'
Acer saccharum 'Legacy'



Tree #16
Sugar Maple
Acer saccharum



1. Condition - Excellent

2. Save or Remove - Save

a. If saved what is the treatment plan / pruning needs?

- a. As the tree matures the two main stems may have to be cabled to each other to prevent splitting in the future. Remove any crossing branches, and aerate the soil. Also root fertilize the root zone of the tree.



Tree #17

Rhododendron Species



1. Condition - Excellent

2. Save or Remove - Save

a. If saved what is the treatment plan / pruning needs?

- a.** This cluster of rhododendrons seem to be doing just fine without much care. Periodically prune branches that might alter the uniformity of the planting.



Tree #18
Cluster of Norway Maple
Acer platanoides (invasive)



1. Condition - Good

2. Save or Remove - Remove

a. If cut, what is a good replacement and where should it go?

- a. This is listed by the State of New Hampshire as an invasive species so it should be removed. Unless there are plans to do a planting of trees along the West Shore Road side of the common there is no reason to replace these trees.



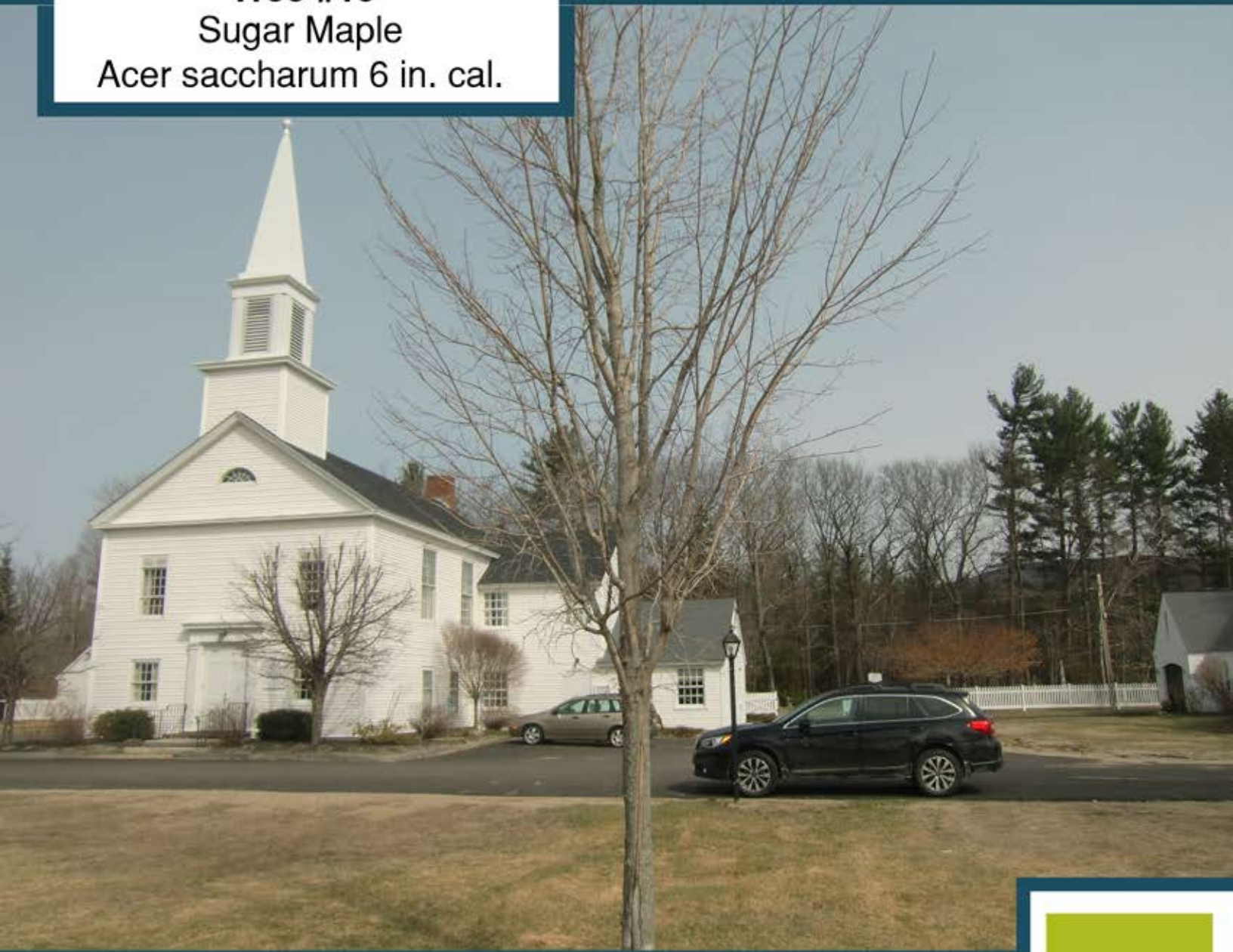
Tree #18a
White Redbud
Cercis canadensis alba 1in.cal.



1. **Conditon** - Good
2. **Save or Remove** - Save
 - a. **If saved what is the treatment plan / pruning needs?**
 - a. Fertilize and Mulch



Tree #19
Sugar Maple
Acer saccharum 6 in. cal.



1. **Condition** - Good there is some lower trunk damage

2. **Save or Remove** - Save

a. **If saved what is the treatment plan / pruning needs?**

- a. Clean out interior branches and potential crossing branches.
Root fertilize the tree and remove the plastic edging from the root area of the tree.



Tree #20
Sugar Maple
Acer saccharum 18 in. cal.



1. **Condition** - Good there is some lower trunk damage

2. **Save or Remove** - Save

a. **If saved what is the treatment plan / pruning needs?**

a. Thin the crown of the tree by a professional arborist, remove crossing branches and root fertilize the tree.



Tree #21
Ash
Fraxinus pennsylvanica



1. Condition - Good there is some lower trunk damage

2. Save or Remove - Save

a. If saved what is the treatment plan / pruning needs?

- a. Watch out for the Emerald Ash Borer. Remove branches that are lower than six (6) feet above the ground. Remove interior branches on the interior stem. Root fertilize and aerate the soil in the root zone.



Tree #22

No tree to take picture of

1. **Condition** - This tree has already been removed. The tree stump is located directly to the front left of the Library on the interior common

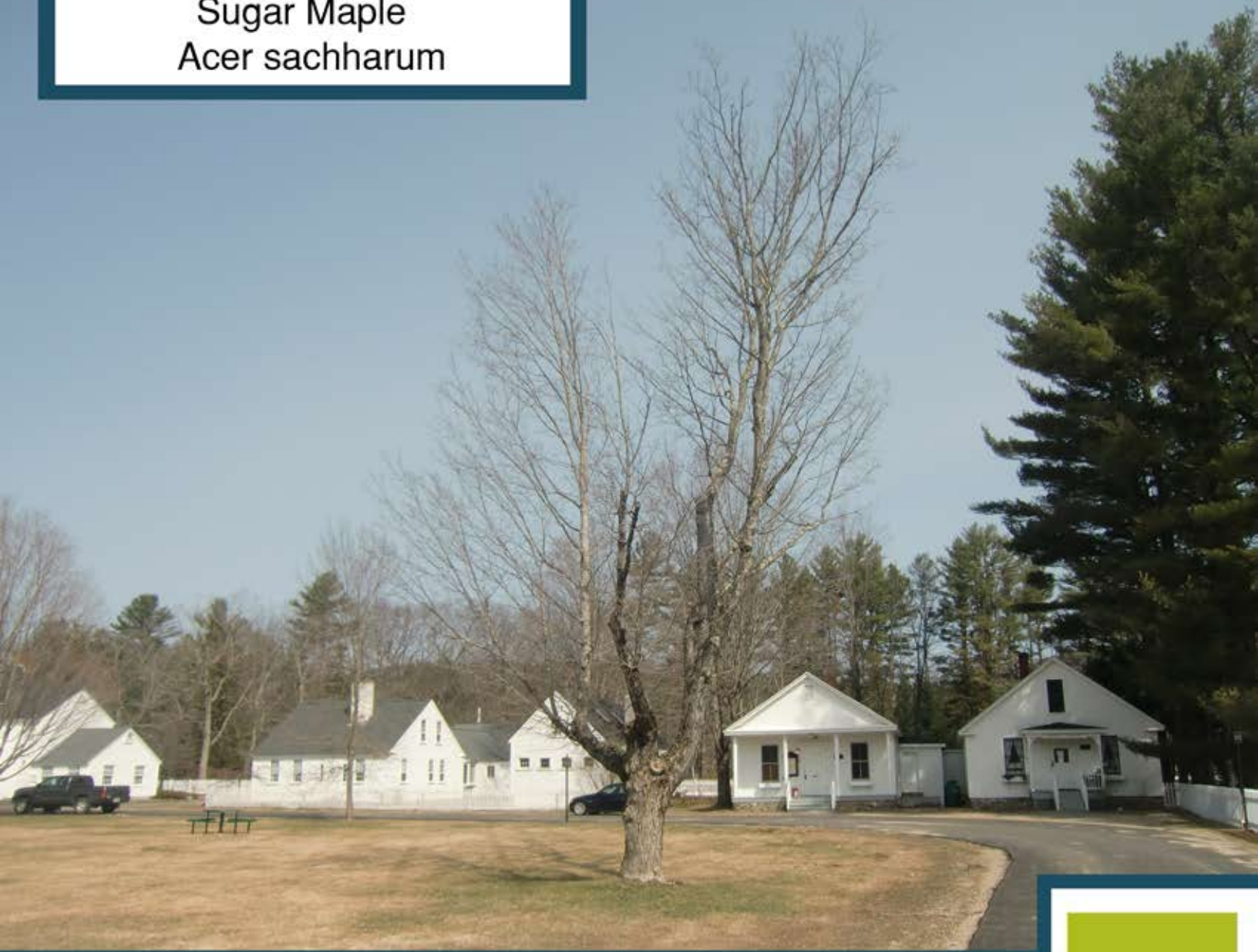
2. **Save or Remove** -

a. **If cut, what is a good replacement and where should it go?**

a. Replace with an Acer rubrum 'October Glory'- October Glory Red Maple



Tree #23
Sugar Maple
Acer sachharum



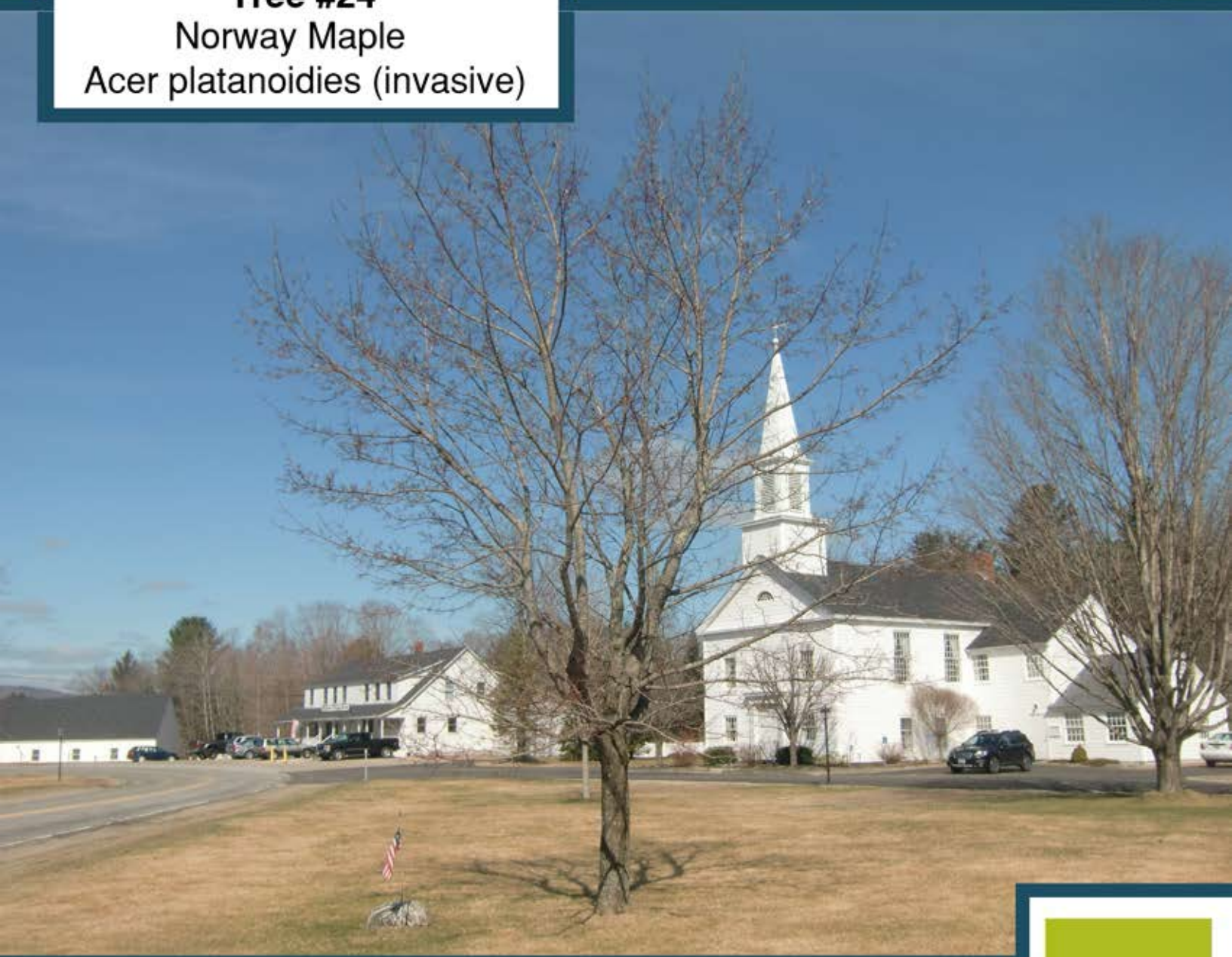
1. Conditon - Fair

2. Save or Remove - Remove

a. If cut, what is a good replacement and where should it go?

- a. There is substantial dead wood and interior decay in this tree. It is in failure condition and is too expensive to make temporary repairs to salvage it. Replace this tree in the same or near the same location with Sugar Maple 'Legacy' *Acer Saccharum* 'Legacy'

Tree #24
Norway Maple
Acer platanoides (invasive)



1. Condition - Fair

2. Save or Remove - Remove

a. If cut, what is a good replacement and where should it go?

- a. This tree has decay in its main stem. Temporary root fertilizing will extend its life. But should be replaced because it is invasive. Replace with a Red Maple 'October Glory' *Acer rubrum* 'October Glory'



Tree #25
Cluster of common Lilac
Syringa vulgaris



1. Condition - Good

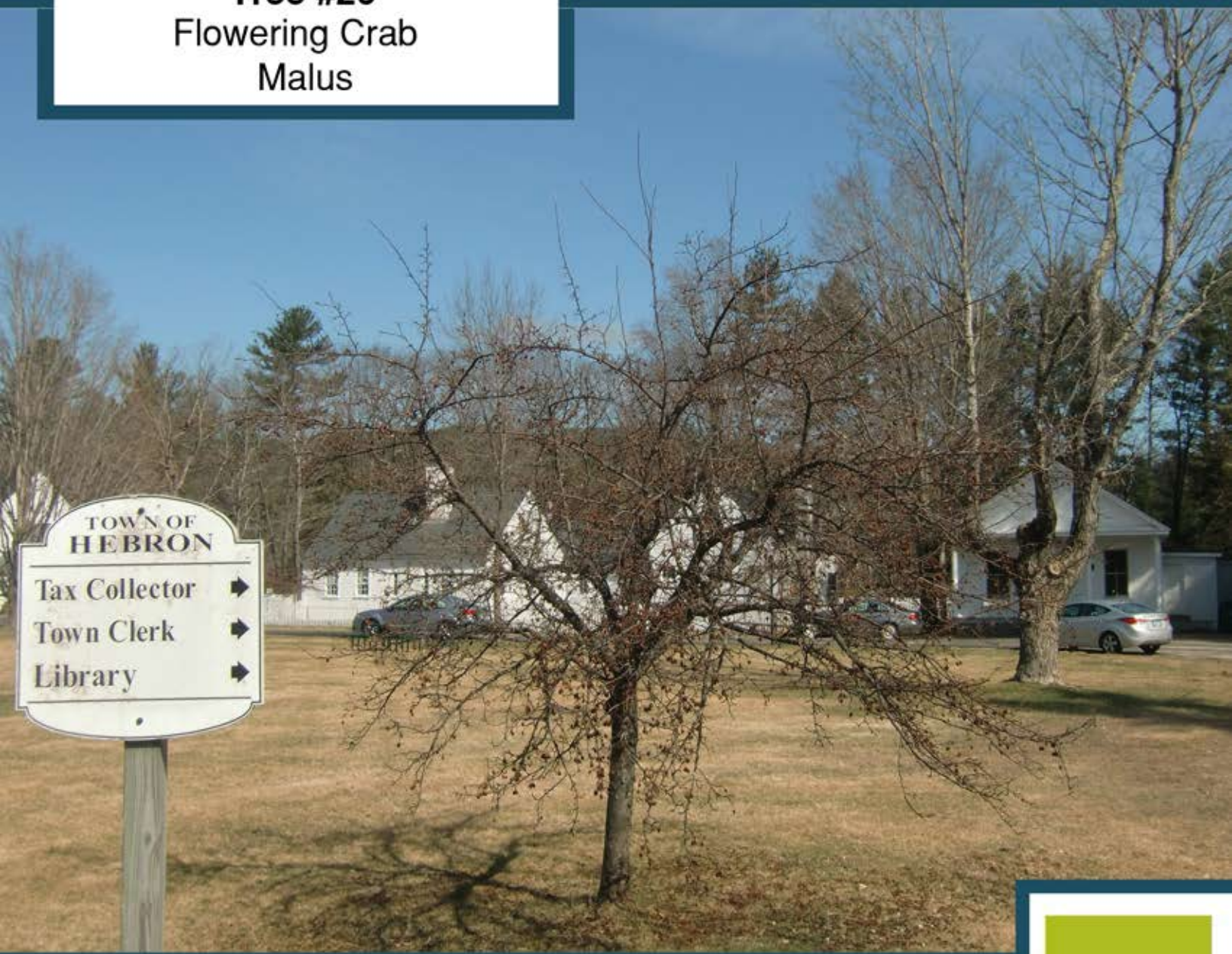
2. Save or Remove - Save

a. If saved what is the treatment plan / pruning needs?

- a. This cluster of lilac seem a little out of place they would be better situated around the "town Clerk" sign as part of a unified planting bed rather than just placed in a random spot on the common. Transplant them as part of a planting bed.



Tree #26
Flowering Crab
Malus



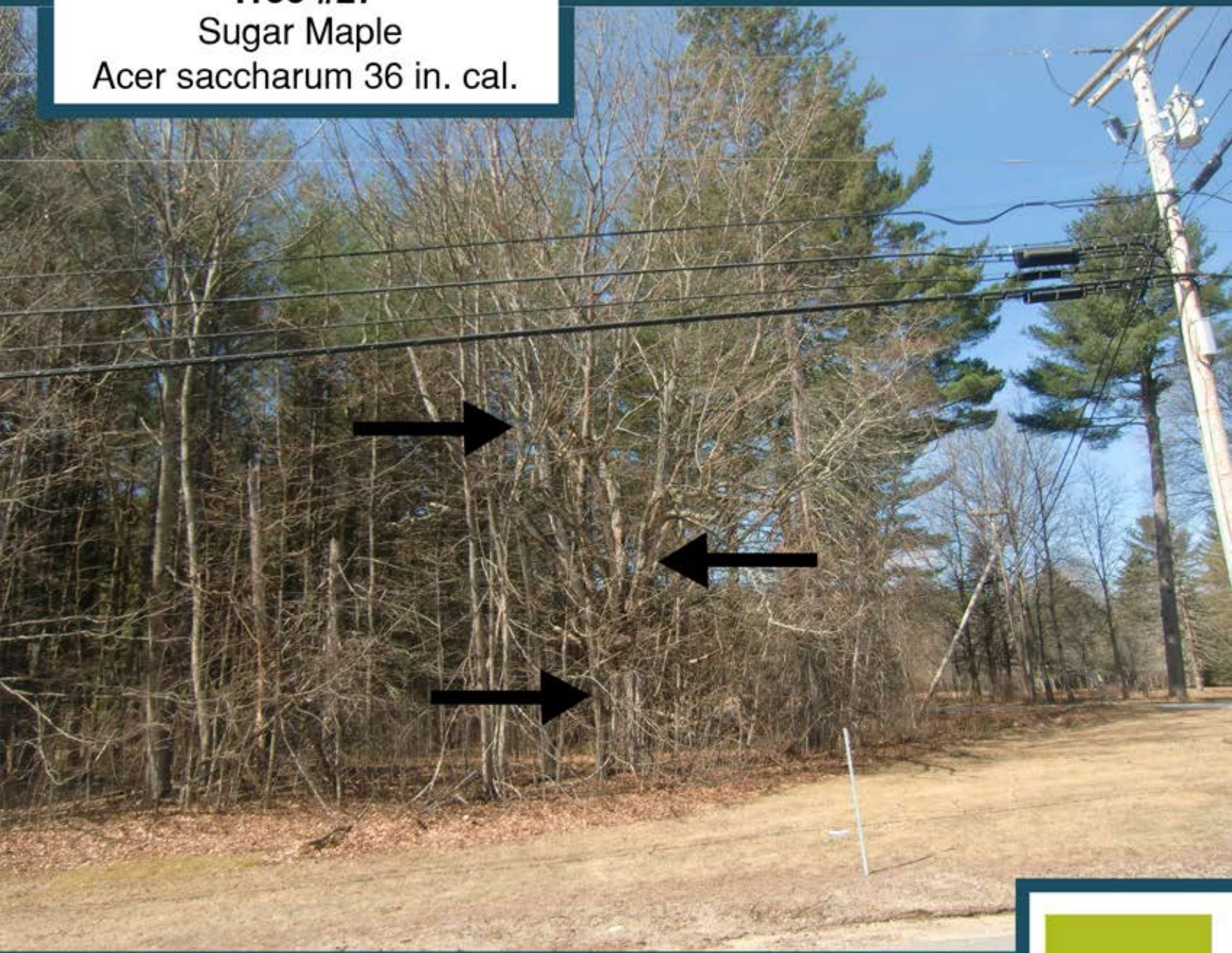
1. Condition - Good

2. Save or Remove - Save

a. If saved what is the treatment plan / pruning needs?

- a.** This tree needs substantial pruning. Prune any interior branches and crossing branches. It should be pruned like a standard apple tree would be pruned. Root fertilize and mulch the root zone.

Tree #27
Sugar Maple
Acer saccharum 36 in. cal.



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1. Condition - Good

2. Save or Remove - Save

a. If saved what is the treatment plan / pruning needs?

- a.** This tree is located behind a lot of secondary growth. Clean out any secondary growth from around it so that it becomes the feature tree in this location. It probably has a fair amount of dead wood that should be cleared out. Just the removal of the competitive secondary growth will do a lot to sustain the life of this tree. It cannot be seen from West Shore Road.

Tree #28
White Spruce
Picea glauca 28 in. cal.



1. Condition - Poor

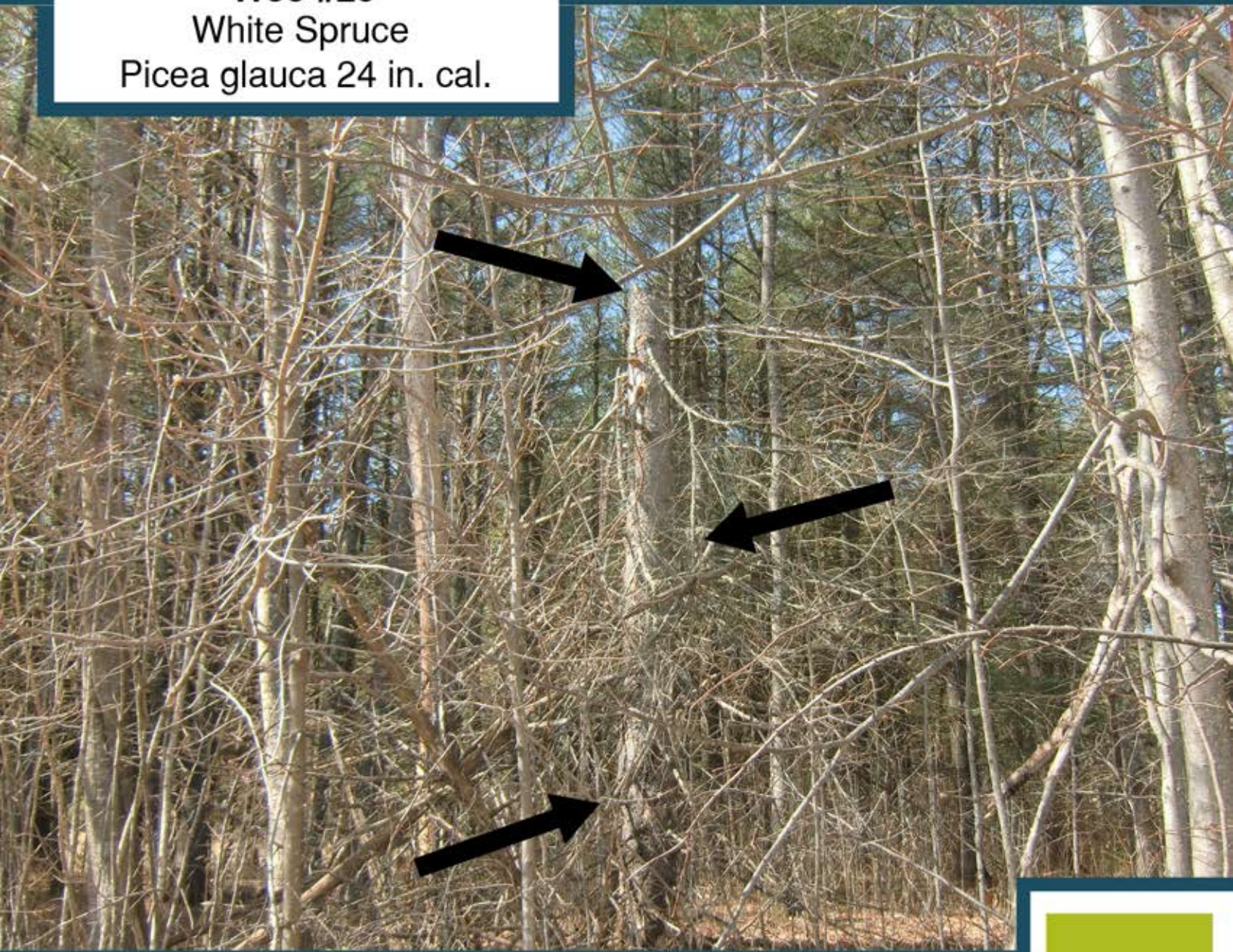
2. Save or Remove - Remove

a. If cut, what is a good replacement and where should it go?

- a. Eventually this tree will fall down on its own under the existing conditions. When time and money allow, then remove the tree. It is behind a substantial amount of secondary growth and is not worth replacing. Unless there is some substantive reason to replace this tree it is recommended that the money saved on this tree be used on the primary portion of the common for larger caliper trees.



Tree #29
White Spruce
Picea glauca 24 in. cal.



1. Condition - Poor (Dead)

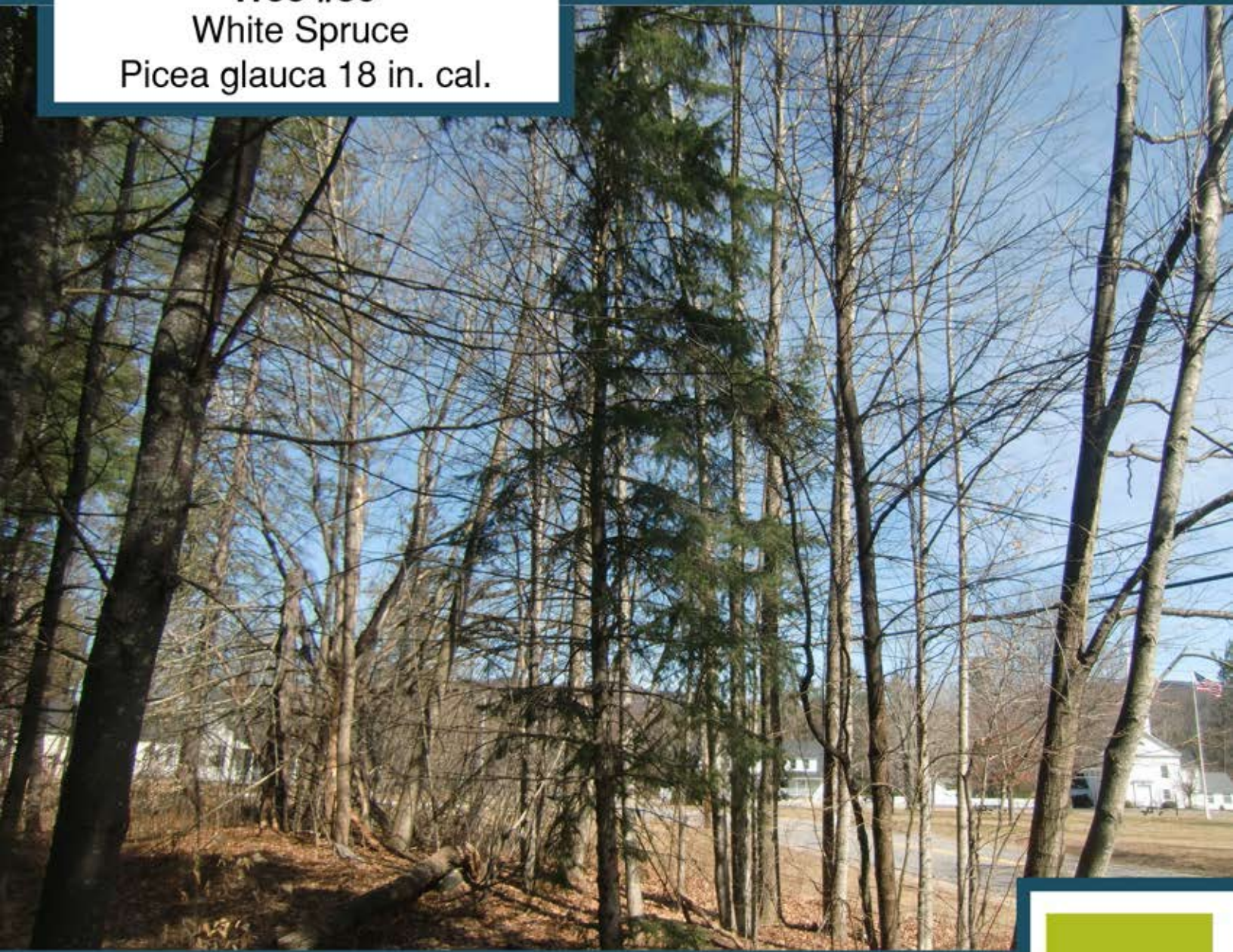
2. Save or Remove - Remove

a. If cut, what is a good replacement and where should it go?

- a. Remove what remains of the tall snag, it is not worth replacing it because it is behind a large amount of secondary growth and cannot be seen from West Shore Road. Unless there is a planned substantive use of this property on the west side of West Shore Road, put the money into planting larger tree on the primary part of the common.



Tree #30
White Spruce
Picea glauca 18 in. cal.



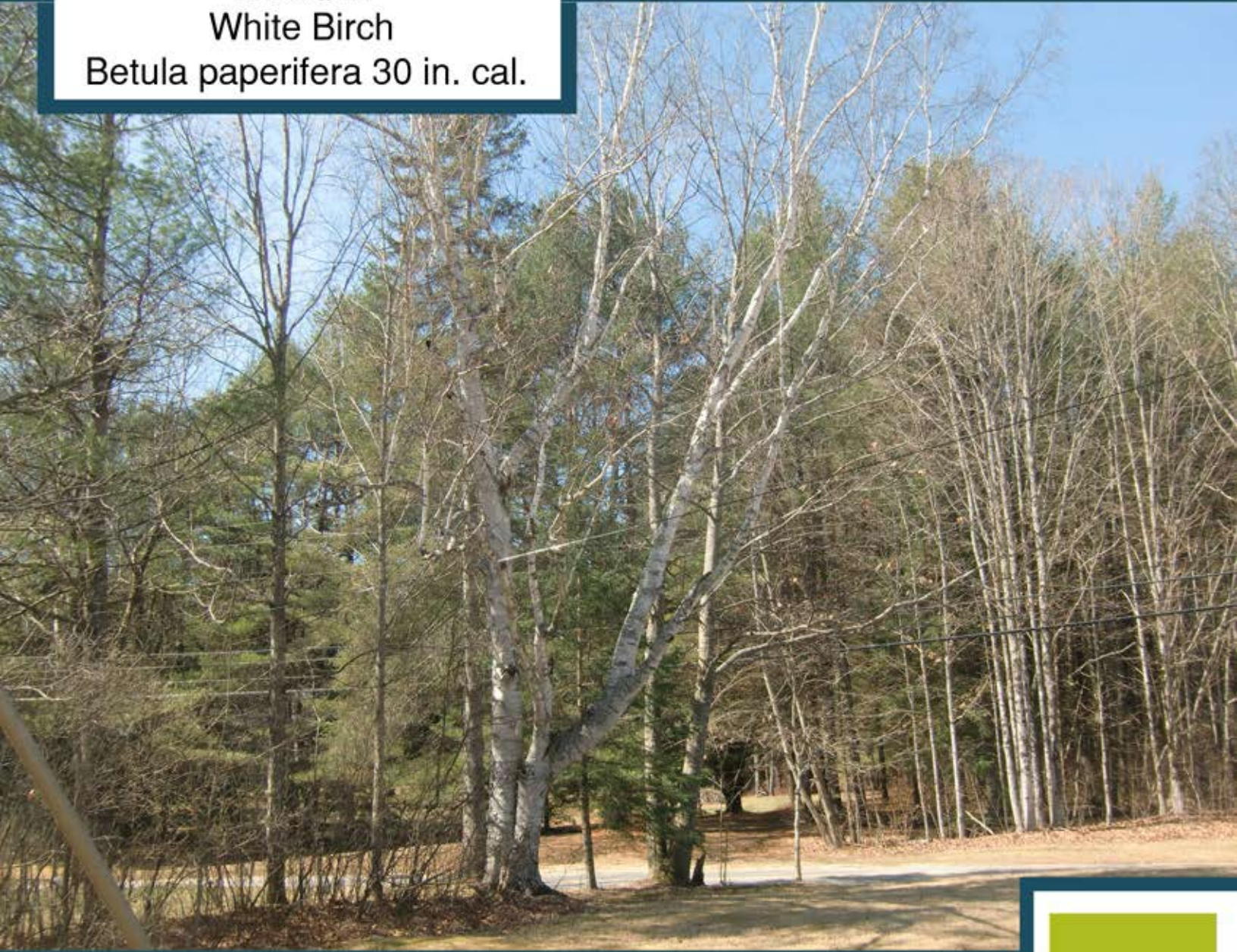
1. Condition - Fair

2. Save or Remove - Leave alone

- a.** This tree has too much competition from other trees that it will eventually die. It is not worth spending time to remove or salvage. Let nature take its course. This tree is not worth putting money into either saving or removing the money could be better spent to plant larger trees on the primary area of the common. Because of the secondary growth this tree cannot be seen from West Shore Road.



Tree #31
White Birch
Betula papyrifera 30 in. cal.



1. Condition - Good

2. Save or Remove - Save

a. If saved what is the treatment plan / pruning needs?

- a. For the time being, this tree is worth saving. Birches are notoriously short lived trees in the world of trees. Eventually in time, it will go into decline and will have to be removed. At this time do some fall pruning to remove the dead wood. Root fertilization and aeration of the soil and some mulching of the root area. Cabling the two stems would be recommended also.



Tree #32
Sugar Maple
Acer saccharum



1. Condition - Excellent

2. Save or Remove - Save

a. If saved what is the treatment plan / pruning needs?

- a. One of the better trees in the common inventory. The crown should be thinned by a professional arborist. The tree should be root fertilized and the root area aerated and mulched. The ground appears to be very compact in this area.

