

Gilles Consulting

— Brian K. Gilles —

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EVALUATION OF TREES AT

RIO VISTA RANCHETTES
26854, 27028, 27066, & 27065
NE 143rd Place
Duvall, WA

June 15, 2015

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EXECUTIVE SUMMARY

A total of 469 trees were evaluated for this report on or near the four individual properties that make up the subject property. They can be summarized as follows:

ALL TREES STATUS SUMMARY		
Status	# of Trees	Percent
Significant	322	68.7%
Not Significant	147	31.3%
Total	469	100.0%

PROPERTY SUMMARY		
4	Off Property	0.9%
10	Right-of-way	2.1%
455	Subject property	97.0%
469	Total # of Trees	100.0%

SPECIES SUMMARY		
#	Species	Percent
1	American Sycamore (Planetree), <i>Platanus occidentalis</i>	0.2%
1	Bitter Cherry, <i>Prunus emarginata</i>	0.2%
10	Black Cottonwood, <i>Populus trichocarpa</i>	2.1%
29	Big Leaf Maple, <i>Acer macrophyllum</i>	6.2%
1	Black Walnut, <i>Juglans nigra</i>	0.2%
1	Cascara, <i>Rhamnus purshiana</i>	0.2%
3	Colorado Blue Spruce, <i>Picea pungens</i>	0.6%
47	Douglas Fir, <i>Pseudotsuga menziesii</i>	10.0%
3	English Laurel, <i>Prunus laurocerasus</i>	0.6%
4	Fruiting Cherry, <i>Prunus sp.</i>	0.9%
2	Grand Fir, <i>Abies grandis</i>	0.4%
4	Giant Sequoia, <i>Sequoiadendron giganteum</i>	0.9%
1	Noble Fir, <i>Abies procera</i>	0.2%
1	Oregon Ash, <i>Fraxinus latifolia</i>	0.2%
3	Pacific Willow, <i>Salix lasiandra</i>	0.6%
37	Red Alder, <i>Alnus rubra</i>	7.9%
2	Scots Pine, <i>Pinus sylvestris</i>	0.4%
3	Spanish Fir, <i>Abies pinsapo</i>	0.6%
1	Tulip Tree, <i>Liriodendron tulipifera</i>	0.2%
45	Western Hemlock, <i>Tsuga heterophylla</i>	9.6%
270	Western Red Cedar, <i>Thuja plicata</i>	57.6%
469	TOTAL	100.0%

SUBJECT PROPERTY TREES STATUS SUMMARY		
Status	# of Trees	Percent
Significant	310	68.1%
Not Significant	145	31.9%
Total	455	100.0%

CURRENT HEALTH RATING SUMMARY		
15	Dead	3.2%
14	Dying	3.0%
44	Poor	9.4%
103	Fair	22.0%
202	Good	43.1%
87	Very Good	18.6%
4	Excellent	0.9%
469	Total # of Trees	100.0%

Based upon these *Current Health Ratings*, the following *Recommendations* are given:

TOTAL TREES RECOMMENDATION SUMMARY		
5	Consider Removal	1.1%
73	Remove for Safety	15.6%
391	Potential to Retain	83.4%
469	Total	100.0%

ASSIGNMENT

Michael Reid, of Rio Vista Investments LLC, contracted with Gilles Consulting to evaluate the trees at the Rio Vista development in Duvall, Washington. The property includes four parcels that are addressed: 26854, 27028, 27066, and 27065 NE 143rd Place. The property is being re-developed from four single family homes into a new subdivision. The City of Duvall requires an extensive analysis of the trees as part of the permit process. This report provides the analysis. The information in this report can be utilized to create a Tree Retention/Preservation Plan as required by the City of Duvall Code.

METHODOLOGY

To evaluate the trees for risk, as well as to prepare this report, I drew upon my 30+ years of experience in the field of arboriculture and my formal education in natural resources management, dendrology, forest ecology, plant identification, and plant physiology. I followed the protocol of the International Society of Arboriculture (ISA) for tree risk assessment. Published in 2011, the *Best Management Practices, Tree Risk Assessment, ANSNI A300 Part 9* was developed to aid in the interpretation of professional standards and guide work practices based upon current science and technology. Using this process,

now called the *Tree Risk Assessment Qualification*, or TRAQ for short, I performed a Level Two assessment which included looking at the overall health of the tree as well as the site conditions. This is a scientifically based process to look at the entire site, surrounding land and soil, as well as a complete look at the tree itself.

In examining each tree, I looked at such factors as: size, vigor, canopy and foliage condition, density of needles, injury, insect activity, root damage and root collar health, crown health, evidence of disease-causing bacteria, fungi or virus, dead wood and hanging limbs. I also reviewed Chapter 14 of the Duvall Code to determine the criteria for determining whether a tree qualifies as a *Significant Tree* or not.

Failure

Trees in an unmanaged setting such as this can deteriorate and become potential hazards to the construction workers as well as the future residents and their guests. In addition, when properties are re-developed and trees are removed, the remaining trees can be vulnerable to wind-throw. While no one can predict with absolute certainty which trees will or will not fail, by using the scientific process noted above, we can assess which trees are most likely to fail and take appropriate action to minimize injury and damage.

Tree Tags

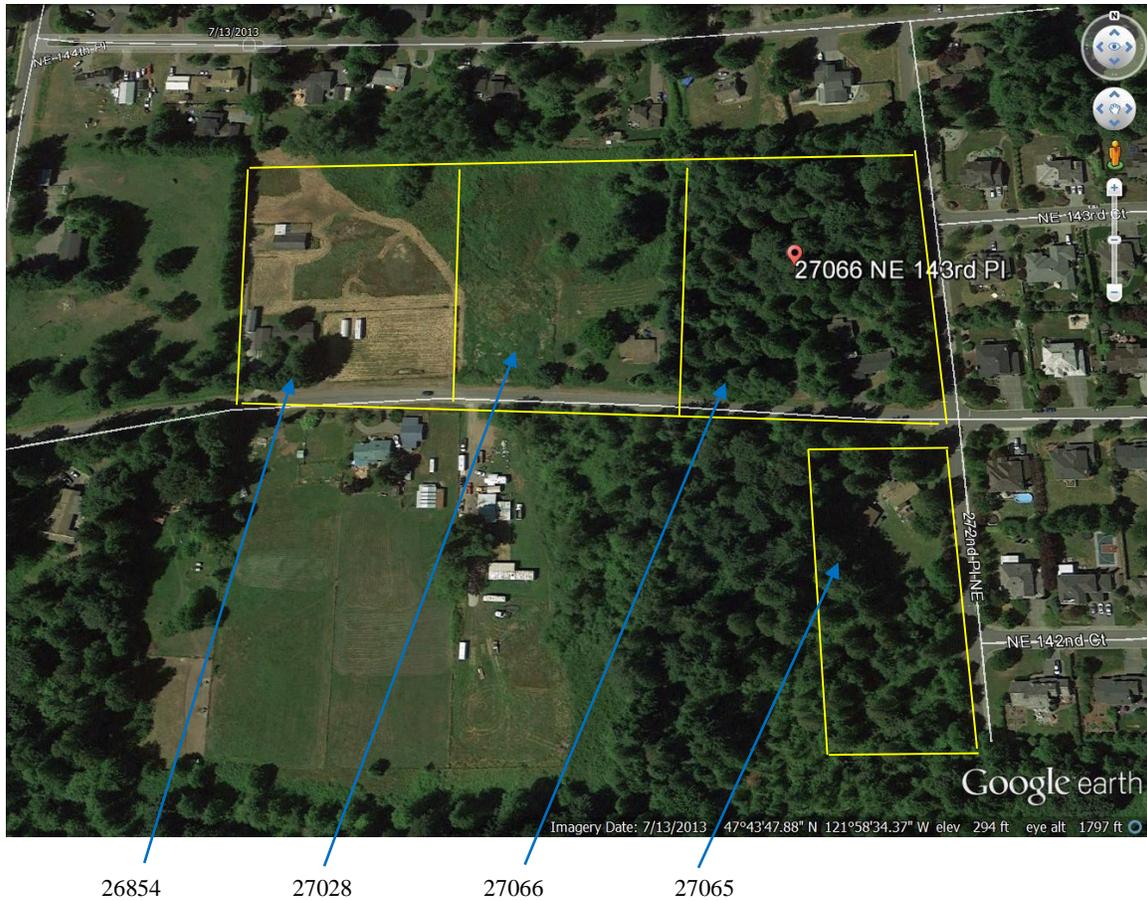
- The majority trees were tagged and numbered by the survey crew. The numbers range somewhat randomly from 5003 through 5865. The tags are made of shiny aluminum approximately one inch by three inches in size and are attached to the tree with staples or nails.
- Many of the tags were no longer present. The tree numbers were discerned from their location on the survey in relation to those trees with tags.
- Please refer to *Attachment 1, Site Survey* for an orientation to the site and the location of the trees.

Missing Trees

- In addition, there are six additional trees on the property that were not included in the original survey.
 - These were tagged numbers 956, 957, 958, 959, 961, and 962.
 - Their approximate locations are hand written onto the Site Survey.
 - These trees may need to be surveyed to determine their exact location in relation to the proposed site improvements and their retainability.
- Additional Trees:
 - There are nine additional trees on the property with survey tags consistent with all the other survey tags, but, they were not shown on the survey.
 - They are trees tagged numbers:
 - 5641, 5642, 5644, 5656, 5657, 5670, 5671, 5672, & 5673.

- As above, their approximate locations are hand drawn onto, *Attachment 1 the Site Survey*.

Photo # 1: A Google Earth image of the site dated 7/13/13. The properties are approximated with the yellow lines.



OBSERVATIONS

Rio Vista Ranchettes is a proposed new subdivision in Duvall that encompasses four individual properties each with a single family home and other improvements currently on each. The properties are:

- On the north side of NE 143rd Place:
 - 26854, 27028, and 27066 NE 143rd Place, and,
- On the south side of NE 143rd Place:
 - 27065 NE 143rd Place.

The properties at 26854 and 27028 have been more extensively cleared and appear to have been managed as large pastures for years. Those pasture area are now overgrown and appear not to have been used for many years. The two properties adjacent to 272nd Place NE are much more heavily wooded with dense remnant native forests and the improvements tucked into the forest.

A total of 21 species of trees were documented on the property. As one would suspect, the non-native/landscape species are planted around the homes and they make up less than 15% of the trees on all the properties. The seven native species make up over 85% of the total number of trees on the site. The properties were improved with the expected improvements of driveways, homes, various out buildings, lawns, and fences. As noted above, the non-native landscape tree species are scattered around the various homes. The forest areas are populated with the trees and groundcover plants typical of unmanaged lowland Puget Sound forests. The species evaluated and documented are as follows:

SPECIES SUMMARY		
#	Species	Percent
1	American Sycamore (Planetree), <i>Platanus occidentalis</i>	0.2%
1	Bitter Cherry, <i>Prunus emarginata</i>	0.2%
10	Black Cottonwood, <i>Populus trichocarpa</i>	2.1%
29	Big Leaf Maple, <i>Acer macrophyllum</i>	6.2%
1	Black Walnut, <i>Juglans nigra</i>	0.2%
1	Cascara, <i>Rhamnus purshiana</i>	0.2%
3	Colorado Blue Spruce, <i>Picea pungens</i>	0.6%
47	Douglas Fir, <i>Pseudotsuga menziesii</i>	10.0%
3	English Laurel, <i>Prunus laurocerasus</i>	0.6%
4	Fruiting Cherry, <i>Prunus sp.</i>	0.9%
2	Grand Fir, <i>Abies grandis</i>	0.4%
4	Giant Sequoia, <i>Sequoiadendron giganteum</i>	0.9%
1	Noble Fir, <i>Abies procera</i>	0.2%
1	Oregon Ash, <i>Fraxinus latifolia</i>	0.2%
3	Pacific Willow, <i>Salix lasiandra</i>	0.6%
37	Red Alder, <i>Alnus rubra</i>	7.9%
2	Scots Pine, <i>Pinus sylvestris</i>	0.4%
3	Spanish Fir, <i>Abies pinsapo</i>	0.6%
1	Tulip Tree, <i>Liriodendron tulipifera</i>	0.2%
45	Western Hemlock, <i>Tsuga heterophylla</i>	9.6%
270	Western Red Cedar, <i>Thuja plicata</i>	57.6%
469	TOTAL	100.0%

In an effort to present the information and conclusions for each tree in a manner that is clear and easy to understand, as well as to save paper, I have included a detailed spreadsheet, *Attachment 2, Tree Inventory/Condition Spreadsheet*. All the same information from the ISA Tree Hazard Form is included in this spreadsheet and the attached glossary. The descriptions on the spreadsheet were left brief in order to include as much pertinent information as possible and to make the report manageable. The attached glossary provides a detailed description of the terms used in the spreadsheet and in this report. It can be found in *Attachment 3, Glossary*. A brief review of these terms and descriptions will enable the reader to rapidly move through the spreadsheet and better understand the information.

Additional Testing

The trees all presented signs and/or symptoms that were readily discernible using the visual tree evaluation system of a *Level Two Basic Risk Assessment* as defined by current industry standards. These signs and/or symptoms indicate extensive internal decay and/or structural defects in some trees and solid trunks and lack of disease in others. Therefore, no additional tests were performed during this site visit.

DISCUSSION AND CONCLUSIONS

Right-of-Way Trees

There are nine trees located in the two adjacent rights-of-way. They are tree numbers: 959, 5024, 5025, 5027, 2097, 5120, 5623, 5630, & 5732.

- Trees in the NE 143rd Place right-of-way:
 - Trees 5623, 5630 and 5732 are all in the NE 143rd Place right-of-way.
 - They are all three large healthy Western Red Cedar Trees.
 - They may or may not be able to be retained depending upon the extent of the right-of-way improvements and utility upgrades required.
- Trees in the 272nd Place NE right-of-way:
 - Trees 959, 5024, 5025, 5027, 5097, and 5120 are all in the 272nd Place NE right-of-way.
 - Trees 5024 and 5025 are large Black Cottonwood trees that are at an age and size where their growth will likely accelerate and they will likely begin to shed large limbs unexpectedly.
 - They should be considered for removal for safety.
 - Tree 959 is a 12.3-inch diameter Maple in Fair condition.
 - It can be considered for retention if right-of-way improvements and utility upgrades allow.
 - Tree 5027 is the lone Bitter Cherry identified on the project. It is moderate size and in good condition.
 - It can be considered for retention if right-of-way improvements and utility upgrades allow.

- Trees 5097 and 5120 are very large Western Red Cedars in Good and Very Good Condition.
 - They can be considered for retention if right-of-way improvements and utility upgrades allow.

Trees on Adjacent Properties

Only four trees on adjacent properties with canopies that overhang the subject properties were tagged. They are all west of the west property line of the southern property, address # 27065 NE 143rd Place. They are all located south of the northwest property corner and just west of the west property line. They will likely all be adequately protected the *Tract S, 0.05 Acres Native Growth Protection Area*.

In addition, along the west property line of the northwest property at 26854 NE 143rd Place, is a row of evergreen trees with canopies that overhang the subject property. Currently, the proposal is to bring the access road right along the west property line for approximately 140 feet then turn it east to encircle proposed lots 64 through 68. North of this proposed Road B, is an open space that is at minimum 38-feet wide. Therefore, the trees on the adjacent property to the west that are north of proposed Road B will be adequately protected with the Limits-of-Clearing Fencing for proposed lots 62 and 63.

Trees on the Subject Property

Of the 469 trees evaluated and documented, 455 of the trees are on the subject property. They can be summarized as follows:

SUBJECT PROPERTY CURRENT HEALTH RATING SUMMARY		
15	Dead	3.3%
14	Dying	3.1%
44	Poor	9.7%
100	Fair	22.0%
196	Good	43.1%
82	Very Good	18.0%
4	Excellent	0.9%
455	Total # of Trees	100.0%

RECOMMENDATIONS

There are three recommendations for all of the trees included in this report. They are: Remove for Safety, Consider Removal, and Potential to Retain With Tree Retention Measures.

- Remove for Safety:
 - These are trees, both greater and lesser than 16 inches in diameter, that are diseased, or are structurally unstable, or lack wind firmness. They have a high potential to fail. They should be removed for the safety of the construction workers, the future residents, and their guests.
- Consider Removal:
 - Please refer to the *Black Cottonwood Trees* section below.
- Potential to Retain With Tree Protection Measures:
 - These are trees that are healthy, have good vigor, are structurally stable, and mostly wind firm. They have the potential to be retained if design, permit requirements, utilities, topography, and construction methodologies permit.
 - This does not mean that all these trees will be retained. It means they have the potential to be retained.

Tree Retention

The City of Duvall defines a *Significant Tree* as any tree greater than 16 inches in diameter, measured at 54 inches above the average ground level. Duvall Code further specifies that 35% of the *Significant Trees* must be retained on a development/re-development property. Of the 35%, 25% must be in the development area and up to 75% can be in sensitive areas, if they exist. If no sensitive areas exist on a property, then all 35% *Significant Tree* retention must be in the developed area. If the 35% retention requirement cannot be met, replacement trees are required to be planted a 3:1 ratio.

However, it must be noted that there are 322 *Significant Trees*, 29 of which are *Non-Viable*. This means that they have a Current Health Rating of Dead, Dying, or Poor. They should be removed for safety.

Retention of course, needs to take into account the location of the trees and the location of the proposed improvements. I strongly advocate retaining as many more trees as possible over the minimum required if development allows. This affords significant flexibility during construction when unforeseen circumstances and events require the removal of trees that were at first planned for retention. If there is a bank of extra *Significant Trees* somewhere else on the property they can be switched out with a tree or more that needs to be removed unexpectedly.

Black Cottonwood Trees

Please note that there are five trees that rate as Fair or Good that are recommended “Consider Removal.” This is because these are five large Black Cottonwood trees. Black Cottonwood trees are one of the trees known as “primary cultivators” by forest ecologists. These trees fill the ecological niche of colonizing an area after disturbance such as forest fire, logging, or construction. They often grow in moist soils or right next to streams, rivers, and lakes as well as in bogs and wetlands. The Black Cottonwood’s natural history is to grow fast and large, reproduce profusely, and then to die rapidly.

They have a short lifespan compared to other trees—sixty to eighty years is considered an average lifespan for Black Cottonwood trees and many individuals begin to decline in as few as 40 years. Because so much energy is placed into rapid growth and reproduction, these trees tend to be more brittle and have inadequate immune response systems. This results in Black Cottonwood trees being prone to failure in adverse weather conditions, being susceptible to several kinds of pathogenic disease, as well as losing large limbs on hot summer days when little or no wind is present. Once disturbed by construction, Black Cottonwood trees are highly susceptible to root disease and insect infestations. It is common for Black Cottonwood trees to rapidly become hazards after construction activity.

This is why I am recommending these trees for removal.

Retention of Non-Significant Trees

There are 147 trees that are rated as *Non-Significant*.

ALL TREES STATUS SUMMARY		
Status	# of Trees	Percent
Significant	322	68.7%
Not Significant	147	31.3%
Total	469	100.0%

It should be pointed out that there are a considerable number of *Non-Significant Trees* that are in fact in good condition. That is, there are 102 of the 147 *Non-Significant Trees*, which are less than 16-inches in diameter but have a *Current Health Rating* of Fair, Good, Very Good, or Excellent. This means that these additional 102 trees have the potential to be retained if design, location, topography, and improvements allow. Many of these may be desirable to retain because they are young, vigorous, have a high potential to survive the stresses of construction, and have the potential to provide excellent screening.

It should also be noted that a number of trees may be *Viable* at this time but may not be candidates for retention. This includes almost all trees that rated as Fair Condition and

those trees rated as Good Condition but have some sort of defect or growing condition that predisposes them to failure or severe decline due to poor root structures, lack of internal stored reserves, and lack of wind firmness. Trees in Good Condition that are growing on nurse logs and stumps, trees with bowed or forked trunks, trees with multiple crowns may not be worthy of retention. When a dense stand such as this is opened up many additional defects will be seen on the remaining trees. This often results in the loss of tree planned for retention.

Therefore, I recommend retaining as many of these healthy *Non-Significant Tree* as is practical.

Tree Protection Measures

In order for trees to survive the stresses placed upon them in the construction process, tree protection must be planned in advance of equipment arrival on site. If tree protection is not planned integral with the design and layout of the project, the trees will suffer needlessly and possibly die. With proper preparation, often costing little or nothing extra to the project budget, trees can survive and thrive after construction. This is critical for tree survival because damage prevention is the single most effective treatment for trees on construction sites. Once trees are damaged, the treatment options available are limited.

The minimum Tree Protection Measures in *Attachment 4, Tree Protection Measures* are on three separate sheets that can be copied and introduced into all relevant documents such as site plans, permit applications and conditions of approval, and bid documents so that everyone involved is aware of the requirements. These Tree Protection Measures are intended to be generic in nature. They will need to be adjusted to the specific circumstances of your site that takes into account the location of improvements and the locations of the trees.

WAIVER OF LIABILITY

There are many conditions affecting a tree's health and stability, which may be present and cannot be ascertained, such as, root rot, previous or unexposed construction damage, internal cracks, stem rot and more which may be hidden. Changes in circumstances and conditions can also cause a rapid deterioration of a tree's health and stability. Adverse weather conditions can dramatically affect the health and safety of a tree in a very short amount of time. While I have used every reasonable means to examine these trees, this evaluation represents my opinion of the tree health at this point in time. These findings do not guarantee future safety nor are they predictions of future events.

The tree evaluation consists of an external visual inspection of an individual tree's root flare, trunk, and canopy from the ground only unless otherwise specified. The inspection may also consist of taking trunk or root soundings for sound comparisons to aid the

evaluator in determining the possible extent of decay within a tree. Soundings are only an aid to the evaluation process and do not replace the use of other more sophisticated diagnostic tools for determining the extent of decay within a tree.

As conditions change, it is the responsibility of the property owners to schedule additional site visits by the necessary professionals to ensure that the long-term success of the project is ensured. It is the responsibility of the property owner to obtain all required permits from city, county, state, or federal agencies. It is the responsibility of the property owner to comply with all applicable laws, regulations, and permit conditions. If there is a homeowners association, it is the responsibility of the property owner to comply with all Codes, Covenants, and Restrictions (CC&R's) that apply to tree pruning and tree removal.

This tree evaluation is to be used to inform and guide the client in the management of their trees. This in no way implies that the evaluator is responsible for performing recommended actions or using other methods or tools to further determine the extent of internal tree problems without written authorization from the client. Furthermore, the evaluator in no way holds that the opinions and recommendations are the only actions required to insure that the tree will not fail. A second opinion is recommended. The client shall hold the evaluator harmless for any and all injuries or damages incurred if the evaluator's recommendations are not followed or for acts of nature beyond the evaluator's reasonable expectations, such as severe winds, excessive rains, heavy snow loads, etc.

This report and all attachments, enclosures, and references, are confidential and are for the use of the client concerned. They may not be reproduced, used in any way, or disseminated in any form without the prior consent of the client concerned and Gilles Consulting.

Thank you for calling Gilles Consulting for your arboricultural needs.

Sincerely,



Brian K. Gilles, Consulting Arborist
ISA Certified Arborist # PN-0260A
ASCA Registered Consulting Arborist # RCA-418
ISA TRAQ Qualified
ISA TRAQ Certified Instructor



ATTACHMENTS

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ATTACHMENT 2 - TREE INVENTORY/CONDITIONS SPREADSHEET

ABBREVIATED LEGEND--SEE GLOSSARY IN REPORT ATTACHMENTS FOR GREATER DETAIL		
#1 Property: Whether the tree is on or off the Subject Property, or a Right-of-Way tree.		#5 DBH: Trunk diameter @ 4.5' above average ground level.
#2 Tree Location: Relative placement of the tree.		#6 Drip Line: The radius, the distance from the trunk to the furthest branch tips.
#3 Tree #: The unique tag number of each tree.		#7 Limits of Disturbance: The boundary between the area of minimum protection around a tree and the allowable site disturbance as determined by a qualified professional.
#4 Species:		#8 LCR: Live Crown Ratio - the amount of live canopy expressed as a % of the entire tree height
AS/Po	American Sycamore (Planetree), <i>Platanus occidentalis</i>	#9 Symmetry: General shape of canopy and weight distribution of the tree around the trunk.
BCh/Pe	Bitter Cherry, <i>Prunus emarginata</i>	#10 Foliage: General description of foliage density that indicates tree health and vigor.
BCw/Pt	Black Cottonwood, <i>Populus trichocarpa</i>	#11 Crown Condition: The most important external indication of tree health and vigor.
BLM/Am	Big Leaf Maple, <i>Acer macrophyllum</i>	#12 Trunk: Description of trunk condition or abnormalities if any.
BW/Jn	Black Walnut, <i>Juglans nigra</i>	#13 Root Collar: The base of the tree where the trunk flares into the roots--deformities or problems are noted here.
C/Rp	Cascara, <i>Rhamnus purshiana</i>	#14 Roots: Root problems are noted here.
CBS/Pp	Colorado Blue Spruce, <i>Picea pungens</i>	#15 Comments: Additional observations about the tree's condition.
Ch/Psp.	Cherry, <i>Prunus sp.</i>	#16 Current Health Rating: A description of general health ranging from dead, dying, poor, fair, good, very good, to excellent.
DF/Pm	Douglas Fir, <i>Pseudotsuga menziesii</i>	<i>Viable trees are those that are structurally sound, windfirm trees that have a Current Health Rating of Fair, Good, Very Good, or Excellent.</i>
EL/Pl	English Laurel, <i>Prunus laurocerasus</i>	<i>Non-Viable Trees are those that are structurally unstable, lack windfirmness, have a high likelihood of failure, and have a Current Health Rating of Dead, Dying, or Poor.</i>
FrCh/Psp	Fruiting Cherry, <i>Prunus sp.</i>	#17 Status: Based upon the size and condition of the tree, does it meet the requirements in the Duvall Code to be Significant or not.
GF/Ag	Grand Fir, <i>Abies grandis</i>	#18 Recommendation: This is an estimate of whether or not the tree is of sufficient health, vigor, and structure that it is worthy of retention.
GS/Sg	Giant Sequoia, <i>Sequoiadendron giganteum</i>	Trees highlighted in RED are those Non-Viable Trees that are Dead, Dying, or in Poor Condition. They are recommended for removal.
NF/Ap	Noble Fir, <i>Abies procera</i>	
OAV/Fl	Oregon Ash, <i>Fraxinus latifolia</i>	
PW/SI	Pacific Willow, <i>Salix lasiandra</i>	
RA/Ar	Red Alder, <i>Alnus rubra</i>	
ScP/Ps	Scots Pine, <i>Pinus sylvestris</i>	
SF/Ap	Spanish Fir, <i>Abies pinsapo</i>	
TT/Lt	Tulip Tree, <i>Liriodendron tulipifera</i>	
WH/Th	Western Hemlock, <i>Tsuga heterophylla</i>	
WRC/Tp	Western Red Cedar, <i>Thuja plicata</i>	

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	South property	956	WRC/Tp	17.3 & 5.3"	12'	12'	12'	12'	105 %	Generally symmetrical	Dense	Healthy	Forked at base	Exposed	Aerial	Growing out of nurse stump. Next to garage at 27065 SE 143rd Place. By old motor home.	Very Good / Viable	Significant	Potential to retain with tree protection measures.	
Off property	West of West Property line South Property	957	WRC/Tp	41.6"	26'	26'	26'	26'	94%	Generally symmetrical	Dense	Healthy	Straight	-	-	Growing west of the west property line, west of trees # 5126 & 5127.	Very Good / Viable	Significant	Potential to retain with tree protection measures.	

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Off property	West of West Property line South Property	958	BLM/Am	17.9"	24'	24'	24'	24'	24'	85%	Major asymmetry	Dense	Average	Forked at 20'	Exposed	Aerial	Growing west of the west property line, west of trees # 5126 & 5127. Growing out of nurse stump.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Right of way	272nd Pl NE	959	BLM/Am	12.3"	22'	To the north property line	22'	To the road shoulder	22'	90%	Major asymmetry	Average	Average	Center rot	NAD	Restricted	Located east and slightly north of the northeast property corner of the North East Property, 27066. Very large yard debris pile at the base that covers more than 45% of the critical root zone. There is a calloused wound on the west side from 2-9 feet. The canopy does not overhang the subject property.	Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	South property	961	WRC/Tp	Est. 48.0"	20'	20'	20'	20'	20'	70%	minor asymmetry	Average	Average	Leans SE	Previous past failure	Previous root failure	Growing in dense brush area at the south end of the south property, Address # 27065. It is app. Equidistant in a 1/2 circle between trees # 5022, 5042, 5043, & 5045.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	962	WH/Th	Est. 22.0"	24'	n/a	n/a	n/a	n/a	110%	Generally symmetrical	Dense	Healthy	Straight	Exposed	Aerial	The tree is on the North Central Property, # 27028, near the northeast property corner. It is growing out of a large nurse stump. Base of trunk is app. 9 feet up on the top of the decomposing old growth stump. The tree is not wind firm and will not survive once	Health is Good but Structure is Poor / Non-Viable.	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
																	the surrounding forest is removed.			
Subject Property	South property	5003	WH/Th	Est. 20.0" & 10.0"	18'	18'	To the SPL	18'	18'	85%	Minor asymmetry	Dense	Healthy	Slight lean south	Exposed	Aerial	Growing out of nurse stump.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5004	WRC/Tp	58.7"	26'	26'	To the S. Prop. Line	26'	26'	85%	Minor asymmetry	Average	Average	Straight	Partially exposed	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5007	WRC/Tp	31.8"	27'	27'	27'	27'	27'	90%	Generally symmetrical	Thin	Weak	Straight	Exposed	Surface		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5008	WRC/Tp	35.1" & 12.0"	24'	24'	24'	24'	24'	85%	Minor asymmetry	Thin	Average	Fork at 13'	NAD	-	Dead branches in canopy.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5009	WRC/Tp	27.6"	22'	22'	22'	22'	22'	75%	Minor asymmetry	Average	Regenerating-Average	Topping wound at 32'	NAD	-		Fair / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	South property	5010	WRC/Tp	56.2"	26'	26'	26'	East Prop. Line	26'	95%	Generally symmetrical	Average	Average	Fork at 10' w/ included bark	NAD	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5011	WRC/Tp	Est. 38.0"	26'	26'	26'	East Prop. Line	26'	95%	Major asymmetry	Dense	Healthy	Slight lean NE	NAD	-	Base is against 5012.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5012	GF/Ag	Est. 30.0"	24'	n/a	n/a	n/a	n/a	90%	Major asymmetry	Average	Average	Center rot	Base Rot	Root Rot	Base is against 5011. Sap sucker activity. Heavy storm damaged in mid-canopy. Bark beetle infestation. Carpenter Ant infestation.	Dying / Non-Viable	Significant	Remove for Safety.
Subject Property	South property	5013	RA/Ar	14.2"	16'	n/a	n/a	n/a	n/a	20%	Minor asymmetry	Thin	Dead	Fork at 24'	Base Rot	Root Rot	Fungal infection in trunk--Phytophthora.	Dying / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	South property	5014	WRC/Tp	44.5"	22'	22'	22'	22'	22'	980%	Generally symmetrical	Dense	Healthy	Straight	NAD	-		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5015	WRC/Tp	34.9"	18'	18'	18'	18'	18'	80%	Generally symmetrical	Average	Average	Slight Lean SW	NAD	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5016	WRC/Tp	25.7"	20'	20'	20'	20'	20'	85%	Generally symmetrical	Average	Average	Straight	NAD	-		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5017	RA/Ar	15.0"	18'	n/a	n/a	n/a	n/a	20%	Major asymmetry	Thin	Dead	Center rot	Base Rot	Root Rot		Dying / Non-Viable	Non-Significant	Remove for Safety.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	South property	5018	WRC/Tp	34.9"	22'	22'	22'	22'	22'	90%	Minor asymmetry	Dense	Healthy	Straight	Exposed	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5020	WH/Th	23.7"	24'	n/a	n/a	n/a	n/a	70%	Minor asymmetry	Dense	Healthy	Topping wound at 32'	Internal structural weaknesses	-	Decay column below topping wound. Calloused wound north side from 9 to 11 feet with decay.	Poor / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	South property	5021	WH/Th	21.1"	24'	24'	24'	24'	24'	98%	Major asymmetry	Dense	Healthy	Straight	Exposed	-	Growing out of old nurse stump.	Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5022	WRC/Tp	40.4"	26'	26'	26'	26'	26'	95%	Generally symmetrical	Dense	Healthy	Straight		-		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Right of way	272nd Place NE	5024	BCw/Pt	17.4 & 10.9"	20'	n/a	n/a	n/a	n/a	80%	Minor asymmetry	Dense	Healthy	Forked at 2' with included bark	NAD	NAD	Canopy does not overhang the subject property. Trunk leans east over the road.	Good / Viable	Significant	Consider Removal
Right of way	272nd Place NE	5025	BCw/Pt	22.6"	30'	n/a	n/a	n/a	n/a	75%	Generally symmetrical	Dense	Healthy	Typical	NAD	NAD		Good / Viable	Significant	Consider Removal
Subject Property	North East Property	5026	WRC/Tp	11.2"	14'	14'	14'	14'	14'	90%	Major asymmetry	Dense	Healthy	Straight	NAD	NAD		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Right of way	272nd Place NE	5027	BCh/Pe	15.0 & 5.8"	20'	20'	20'	To the road shoulder	20'	60%	Minor asymmetry	Dense	Healthy	Forked at base	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5028	BLM/Am	27.6"	42'	42'	42'	42'	42'	60%	Minor asymmetry	Dense	Regenerating healthy	Harp	Previous past failure	Previous root failure		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5029	WRC/Tp	11.3"	14'	To the north property line	14'	To the east property line	14'	90%	Major asymmetry	Dense	Healthy	Straight	NAD	NAD		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5030	WRC/Tp	15.4"	12'	To the north property line	12'	To the east property line	12'	65%	Generally symmetrical	Average	Average	Straight	NAD	NAD		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5031	WRC/Tp	22.2"	16'	To the north property line	16'	16'	16'	80%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5032	WRC/Tp	15.4"	16'	To the north property line	16'	To the east property line	16'	90%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	South property	5034	WH/Th	12.3"	16'	16'	16'	16'	16'	85%	Major asymmetry	Dense	Healthy	Serpentine	Exposed	Aerial	Growing out of nurse stump.	Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	South property	5035	WRC/Tp	30.3"	26'	26'	26'	26'	26'	98%	Minor asymmetry	Dense	Healthy	Straight	Exposed	-	Against 5036.	Very Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	South property	5036	WRC/Tp	18.3"	16'	16'	16'	16'	16'	95%	Major asymmetry	Dense	Healthy	Straight	Exposed	-	Against 5035.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5037	RA/Ar	15.5"	24'	n/a	n/a	n/a	n/a	85%	Major asymmetry	Average	Dying	Bowed	Partially exposed	-		Poor / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	South property	5038	RA/Ar		Tree Failed in previous storm.													Dead / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	South property	5039	RA/Ar		Tree Failed in previous storm.													Dead / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	South property	5040	WH/Th	20.7"	16'	16'	16'	16'	16'	80%	Minor asymmetry	Average	Average	Serpentine	Exposed	-		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5041	WH/Th	18.2"	16'	16'	16'	16'	16'	75%	Minor asymmetry	Average	Average	Forked at 18', bowed	Partially exposed	-		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5042	WRC/Tp	14.5"	16'	16'	16'	16'	16'	80%	Generally symmetrical	Average	Average	Straight	Exposed	Aerial	Growing out of nurse log.	Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	South property	5043	WRC/Tp	15.2"	16'	16'	16'	16'	16'	90%	Major asymmetry	Average	Average	Straight	NAD	-		Good / Viable	Non-Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
																				measure s.
Subject Property	South property	5044	RA/Ar	24.4"	0'	n/a	n/a	n/a	n/a	0%	n/a	None	Dead	Center rot	Base Rot	Root Rot	Bark sloughing.	Dead / Non-Viable	Significant	Remove for Safety.
Subject Property	South property	5045	WRC/Tp	12.6"	16'	16'	16'	16'	16'	895%	minor asymmetry	Thin	Average	Straight	Exposed	-	Bowed at base.	Fair / Viable	Non-Significant	Potential to retain with tree protection measure s.
Subject Property	South property	5046	WRC/Tp	15.7"	18'	18'	18'	18'	18'	90%	Minor asymmetry	Average	Average	Leans SE	NAD	-	Large failed Western Red Cedar trunk is pushing hard against the lower trunk of this tree causing the lean.	Fair / Viable	Non-Significant	Potential to retain with tree protection measure s.
Subject Property	South property	5047	WRC/Tp	9.7"	12'	12'	12'	12'	12'	65%	Minor asymmetry	Average	Average	Slight bow at base	Bowed	-		Fair / Viable	Non-Significant	Potential to retain with tree protection measure s.
Subject Property	South property	5048	WRC/Tp	12.7"	18'	18'	18'	18'	18'	85%	Major asymmetry	Average	Regenerating-Average	Topping wound at 32'	Bowed	Surface	Dead branches in canopy.	Fair / Viable	Non-Significant	Potential to retain with tree protection measure s.
Subject Property	South property	5049	BLM/Am	15.3"	34'	34'	34'	34'	34'	80%	Minor asymmetry	Dense	Healthy	Fork at 18'	NAD	-		Good / Viable	Non-Significant	Potential to retain with tree protection measure s.
Subject Property	South property	5050	RA/Ar	12.3"	16'	n/a	n/a	n/a	n/a	10%	Epicormic growth only, Thin	Epicormic growth only. Thin.	Dead	Leans South	Partially exposed	-	Fungal infection in trunk--Phytophthora.	Dying / Non-Viable	Non-Significant	Remove for Safety.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	South property	5051	WRC/Tp	39.9"	24'	24'	24'	24'	24'	98%	Generally symmetrical	Dense	Healthy	Serpentine	Exposed	-	Growing out of nurse stump.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5052	RA/Ar	14.7"	20'	n/a	n/a	n/a	n/a	55%	Minor asymmetry	Thin	Dead	Leans west, center rot	Base Rot	Aerial	Structural crack on the NE side from 16 to 21 feet--not wind firm.	Dying / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	South property	5053	BLM/Am	12.3"	18'	18'	18'	18'	18'	55%	Generally symmetrical	Average	Healthy	Typical	Exposed	-		Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	South property	5054	RA/Ar	13.0"	0'	n/a	n/a	n/a	n/a	0%	None	None	Broken out	Center rot	Base Rot	Rot	Carpenter ant infestation and woodpecker activity.	Dead / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	South property	5055	WRC/Tp	11.8"	12'	12'	12'	12'	12'	45%	Major asymmetry	Average	Average	Serpentine	Exposed	-		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	South property	5056	WRC/Tp	13.5"	14'	14'	14'	14'	14'	70%	Minor asymmetry	Average	Average	Straight	Exposed	-		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	South property	5057	DF/Pm	39.5"	32'	32'	32'	32'	32'	50%	Major asymmetry	Dense	Healthy	Straight	NAD	-		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5058	WRC/Tp	50.5"	28'	28'	28'	28'	28'	98%	Minor asymmetry	Average	Average	Slight lean South	NAD	-		Very Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
						North	South	East	West											
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE					LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	South property	5059	WRC/Tp	41.2"	26'	26'	26'	26'	26'	98%	Generally symmetrical	Average	Average	Straight		-		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5062	WRC/Tp	41.4"	26'	26'	26'	26'	26'	90%	Generally symmetrical	Dense	Healthy	Straight	NAD	-		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5063	WRC/Tp	34.6"	20'	20'	20'	20'	20'	80%	minor asymmetry	Average	Average	Leans east and is kinked at 46'	NAD	-		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5064	WRC/Tp	37.3"	22'	22'	22'	22'	22'	90%	Major asymmetry	Average	Average	Straight		-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5065	WRC/Tp	24.4"	20'	20'	20'	20'	20'	50%	minor asymmetry	Average	Average	Straight		-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5066	WRC/Tp	45.8"	22'	22'	22'	22'	22'	75%	Generally symmetrical	Dense	Healthy	Forked at 9 and 28'		-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5067	BLM/Am	20.9 & 20.8"	36'	36'	36'	36'	36'	75%	minor asymmetry	Dense	Healthy	Forked at base	Partially exposed	-	Dead branches in canopy.	Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
						North	South	East	West											
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE					LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	South property	5068	WRC/Tp	30.7"	22'	22'	22'	22'	22'	95%	Major asymmetry	Dense	Healthy	Straight	Bowed	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5069	WRC/Tp	18.3"	20'	20'	20'	20'	20'	85%	Major asymmetry	Dense	Healthy	Straight	Exposed	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5070	WRC/Tp	27.4"	20'	20'	20'	20'	20'	65%	Major asymmetry	Dense	Healthy	Forked at 30'		-		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5071	WRC/Tp	26.7"	20'	20'	20'	20'	20'	90%	Major asymmetry	Dense	Healthy	Straight		-		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5072	DF/Pm	36.6"	26'	26'	26'	26'	26'	55%	minor asymmetry	Dense	Healthy	Straight	Exposed	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5074	WH/Th	41.5"	26'	26'	26'	26'	26'	90%	Minor asymmetry	Dense	Healthy	Fork at 36'	Exposed	-	Sap flow on west side from 7 feet down to 4 feet.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5075	WRC/Tp	39.8"	26'	26'	26'	26'	26'	90%	Major asymmetry	Dense	Healthy	Leans NW	NAD	-		Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5076	WRC/Tp	17.2"	18'	18'	18'	18'	18'	85%	Major asymmetry	Average	Average	Leans N	NAD	-		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5077	WRC/Tp	43.8"	26'	26'	26'	26'	26'	60%	Minor asymmetry	Average	Average	Straight	NAD	-	Base is against 5078 & 5079.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5078	WRC/Tp	16.7"	12'	n/a	n/a	n/a	n/a	40%	Minor asymmetry	Dense	Regenerating - Healthy	Broken off at 26'	NAD	-	Base is against 5077 & 5079. Decay column below the topping wound.	Poor / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North East Property	5079	WRC/Tp	12.6"	12'	n/a	n/a	n/a	n/a	12%	Major asymmetry	Sparse	Regenerating - Weak	Center rot	Base Rot	Possible Root Rot	Base is against 5077 & 5078. Open wound west side from the base up 7.5 feet with decay.	Poor / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North East Property	5080	WRC/Tp	44.9"	26'	26'	26'	26'	26'	80%	Minor asymmetry	Dense	Healthy	Straight	NAD	-	Sap sucker activity.	Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5081	BLM/Am	20.3"	20'	n/a	n/a	n/a	n/a	80%	Major asymmetry	Average	Regenerating average	Typical	Exposed	Aerial	Growing out of nurse stump.	Poor / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North East Property	5082	WH/Th	29.4"	0'	n/a	n/a	n/a	n/a	0%	None	None	Broken out	Center rot	Base Rot	Rot		Dead / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North East Property	5083	WH/Th	36.3"	30'	30'	30'	30'	30'	55%	Minor asymmetry	Average	Average	Leans northeast	Partially exposed	-		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5084	WH/Th	26.5"	26'	26'	26'	26'	26'	70%	Minor asymmetry	Average	Average	Slight bow	NAD	-		Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
																				measure s.
Subject Property	North East Property	50885	WH/Th	30.6"	24'	n/a	n/a	n/a	n/a	90%	Major asymmetry	Average	Average	Center rot	Base Rot	Probable Root Rot	Trunk forked at 32' and has carpenter ant infestation.	Poor / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North East Property	50886	WRC/Tp	14.4"	14'	14'	14'	14'	14'	80%	Minor asymmetry	Average	Average	Straight	NAD	-		Good / Viable	Non-Significant	Potential to retain with tree protection measure s.
Subject Property	North East Property	50887	WH/Th	29.8"	28'	28'	28'	28'	28'	85%	Generally symmetrical	Dense	Healthy	Straight	Partially exposed	-		Very Good / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	North East Property	50888	WRC/Tp	20.5"	18'	18'	18'	18'	18'	90%	Major asymmetry	Average	Average	Straight	Partially exposed	-		Fair / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	North East Property	50889	WRC/Tp	43.7"	28'	28'	28'	28'	28'	95%	Minor asymmetry	Average	Average	Straight	Partially exposed	-		Good / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	North East Property	50900	WH/Th	30.4"	26'	26'	26'	26'	26'	80%	Major asymmetry	Dense	Healthy	Straight	Exposed	-		Good / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	North East Property	50911	RA/Ar	13.2"	24'	n/a	n/a	n/a	n/a	65%	minor asymmetry	Average	Weak	Leans SW	Exposed	-	Dead branches in canopy.	Poor / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North East Property	50922	BLM/Am	14.8"	0'	n/a	n/a	n/a	n/a	0%	None	None	Broken out	Center rot	Base Rot	Rot	Bark sloughing.	Dead / Non-Viable	Non-Significant	Remove for Safety.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5093	WRC/Tp	16.3"	20'	20'	20'	20'	20'	85%	Major asymmetry	Dense	Healthy	Straight	Swollen	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5094	WRC/Tp	15.4"	18'	18'	18'	18'	18'	80%	Major asymmetry	Average	Average	Vertical after kink at 7'	Exposed	NAD		Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5095	BLM/Am		Tree Failed in Previous Storm.													Dead / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North East Property	5096	WH/Th	39.8"	20'	n/a	n/a	n/a	n/a	50%	Minor asymmetry	Dense	Healthy	Center rot	Base Rot	Rot		Poor / Non-Viable	Significant	Remove for Safety.
Right of way	272nd Pl NE	5097	WRC/Tp	56.0"	26'	26'	26'	To road shoulder	26'	95%	Generally symmetrical	Dense	Healthy	Straight		-		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5098	RA/Ar	10.4"	18'	n/a	n/a	n/a	n/a	40%	Major asymmetry	Sparse	Dying	Leans east		-		Poor / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	South property	5099	RA/Ar	21.5 & 13.6"	30'	n/a	n/a	n/a	n/a	55%	Minor asymmetry	Dense	Dead	Forked at 3.5 % 18', center rot	Base Rot	Rot		Dying / Non-Viable	Significant	Remove for Safety.
Subject Property	South property	5100	RA/Ar	22.3"	20'	n/a	n/a	n/a	n/a	60%	Major asymmetry	Sparse	Dead	Center rot	Base Rot	Rot		Dying / Non-Viable	Significant	Remove for Safety.
Subject Property	South property	5101	WRC/Tp	16.1"	12'	12'	12'	12'	12'	95%	Generally symmetrical	Dense	Healthy	Straight	Partially exposed	-		Poor / Non-Viable	Significant	Remove for Safety.
Subject Property	South property	5102	RA/Ar	18.3"	26'	n/a	n/a	n/a	n/a	90%	Minor asymmetry	Dense	Dead	Leans south	Partially exposed	-		Poor / Non-Viable	Significant	Remove for Safety.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
						North	South	East	West											
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE					LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	South property	5103	WRC/Tp	16.6"	15'	15'	15'	15'	15'	95%	Generally symmetrical	Dense	Healthy	Bowed	Partially exposed	-		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5104	WRC/Tp	49.9"	24'	24'	25'	26'	27'	98%	minor asymmetry	Dense	Healthy	Straight		-		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5105	BLM/Am	18.1"	24'	24'	24'	24'	24'	65%	Major asymmetry	Dense	Healthy	Leans east. Forked at 9'		-		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5106	WRC/Tp	24.4 & 12.0"	22'	22'	22'	22'	22'	98%	Major asymmetry	Dense	Healthy	Forked at base	Bowed	-		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5109	WH/Th	29.9"	20'	20'	20'	20'	20'	90%	minor asymmetry	Dense	Healthy	Straight		-	Girdling root on the north side that covers 30% of the circumference, from tree 5110.	Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5110	WRC/Tp	11.0"	12'	12'	12'	12'	12'	98%	Major asymmetry	Average	Average	Bowed		Restricted	Base is against 5109.	Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	South property	5111	WRC/Tp	22.0"	14'	14'	14'	14'	14'	90%	minor asymmetry	Dense	Healthy	Straight		-		Excellent / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	South property	5113	WH/Th	20.9"	14'	14'	14'	14'	14'	40%	Major asymmetry	Average	Average	Straight	Exposed	Surface		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5114	WH/Th	19.4"	20'	20'	20'	20'	20'	98%	Major asymmetry	Dense	Healthy	Leans north	Bowed	Aerial	Growing out of nurse stump.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5115	WRC/Tp	31.1"	20'	20'	20'	20'	20'	70%	Major asymmetry	Average	Average	Straight	Bowed	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5117	WRC/Tp	18.2"	12'	12'	12'	12'	12'	90%	minor asymmetry	Dense	Healthy	Straight		-		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5118	WRC/Tp	18.3"	12'	12'	12'	12'	12'	90%	minor asymmetry	Dense	Regenerating healthy	Forked at 26'		-		Fair / Viable	Significant	Potential to retain with tree protection measures.
Right of way	272nd Pl NE	5120	WRC/Tp	46.4"	26'	26'	26'	26'	26'	98%	Generally symmetrical	Average	Average	Straight		-	Sap sucker activity.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5121	WRC/Tp	40.4"	24'	24'	24'	24'	24'	98%	Major asymmetry	Dense	Average	Leans northeast	NAD	-	Base is engulfing a 13 inch diameter WRC from the base up 14 feet.	Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
						North	South	East	West											
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE					LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	South property	5122	WH/Th	25.2"	10'	10'	10'	10'	10'	50%	Minor asymmetry	Dense	Healthy	Straight	NAD	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5123	WH/Th	28.9"	22'	22'	22'	22'	22'	55%	Minor asymmetry	Dense	Average	Straight	Partially exposed	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5124	WRC/Tp	25.2"	18'	18'	18'	18'	18'	98%	Generally symmetrical	Dense	Healthy	Straight		-		Excellent / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5125	RA/Ar	15.7"	0'	n/a	n/a	n/a	n/a	0%	None	None	Dead	Center rot	Base Rot	Rot	Carpenter ant infestation. Woodpecker activity. Fungal fruiting bodies.	Dead / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	South property	5126	RA/Ar	12.7"	14'	n/a	n/a	n/a	n/a	45%	Generally symmetrical	Dense	Dead	Slightly serpentine	Partially exposed	-		Poor / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	South property	5127	RA/Ar	7.9"	0'	n/a	n/a	n/a	n/a	0%	None	None	Broken out	Center rot	Base Rot	Rot	Carpenter ant infestation. Woodpecker activity. Fungal fruiting bodies.	Dead / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	South property	5128	DF/Pm	47.5"	26'	n/a	n/a	n/a	n/a	55%	minor asymmetry	Dense	Broken out	Straight	Base Rot	Rot	Sap flow on the east side from 3 feet down to the base and on the west side from 3 feet down to the base. Armillaria.	Dying / Non-Viable	Significant	Remove for Safety.
Subject Property	North West Property	5501	WH/Th	20.9"	18'	18'	18'	18'	18'	90%	Minor asymmetry	Dense	Healthy	Slight Lean North	NAD	-		Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
						North	South	East	West											
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE					LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North West Property	5502	DF/Pm	24.7"	20'	20'	20'	20'	20'	985%	Major asymmetry	Dense	Healthy	Straight	NAD	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5503	DF/Pm	23.5"	20'	20'	20'	20'	20'	90%	Minor asymmetry	Dense	Healthy	Straight	NAD	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5504	DF/Pm	19.7"	20'	20'	20'	20'	20'	80%	Minor asymmetry	Dense	Healthy	Straight	NAD	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5505	DF/Pm	17.7"	18'	18'	18'	18'	18'	80%	Major asymmetry	Dense	Healthy	Straight	NAD	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5506	DF/Pm	21.2"	22'	22'	22'	22'	22'	85%	Minor asymmetry	Dense	Healthy	Slight Bow	NAD	-	Early bark beetle infestation.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5507	DF/Pm	16.6"	16'	16'	16'	16'	16'	80%	Minor asymmetry	Dense	Healthy	Straight	NAD	-	Early bark beetle infestation.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5508	DF/Pm	16.0"	20'	20'	To the SPL	20'	20'	98%	Major asymmetry	Dense	Healthy	Slightly serpentine	NAD	-		Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North West Property	5509	DF/Pm	20.9"	16'	16'	To the Road Shoulder	16'	16'	95%	Major asymmetry	Dense	Healthy	Straight	NAD	-	Side pruned for electrical wire clearance.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5510	DF/Pm	15.2"	16'	16'	To the Road Shoulder	16'	16'	95%	Minor asymmetry	Dense	Healthy	Straight	NAD	-	Side pruned for electrical wire clearance. Bark Beetle infestation.	Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5511	DF/Pm	14.4"	14'	14'	To the Road Shoulder	14'	14'	95%	Minor asymmetry	Dense	Healthy	Straight	NAD	-	Side pruned for electrical wire clearance.	Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5512	DF/Pm	21.0"	20'	20'	To the Road Shoulder	20'	20'	95%	Minor asymmetry	Dense	Healthy	Slight Bow	NAD	-	Side pruned for electrical wire clearance.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5513	DF/Pm	19.8"	12'	12'	To the Road Shoulder	12'	12'	96%	Minor asymmetry	Dense	Healthy	Straight	NAD	-	Side pruned for electrical wire clearance.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5514	DF/Pm	15.6"	14'	14'	To the Road Shoulder	14'	14'	96%	Minor asymmetry	Dense	Healthy	Straight	NAD	-	Side pruned for electrical wire clearance.	Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5515	DF/Pm	12.9"	12'	12'	To the Road Shoulder	12'	12'	96%	Minor asymmetry	Dense	Healthy	Straight	NAD	-	Side pruned for electrical wire clearance.	Good / Viable	Non-Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North West Property	5516	DF/Pm	19.7"	20'	20'	To the Road Shoulder	20'	20'	96%	Minor asymmetry	Dense	Healthy	Straight	NAD	-	Side pruned for electrical wire clearance. Bark Beetle infestation.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5517	DF/Pm	22.7"	20'	20'	To the Road Shoulder	20'	20'	96%	Minor asymmetry	Dense	Healthy	Straight	NAD	-	Side pruned for electrical wire clearance. Early Bark Beetle infestation.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5518	DF/Pm	16.4"	16'	16'	To the Road Shoulder	16'	16'	96%	Minor asymmetry	Dense	Healthy	Straight	NAD	-	Side pruned for electrical wire clearance.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5519	DF/Pm	16.9"	16'	16'	To the Road Shoulder	16'	16'	96%	Major asymmetry	Dense	Healthy	Straight	NAD	-	Side pruned for electrical wire clearance.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5520	DF/Pm	18.6"	18'	18'	To the Road Shoulder	18'	18'	96%	Minor asymmetry	Dense	Healthy	Straight	NAD	-	Side pruned for electrical wire clearance.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5521	DF/Pm	21.4"	14'	14'	To the Road Shoulder	14'	14'	96%	Minor asymmetry	Dense	Healthy	Straight	NAD	-	Side pruned for electrical wire clearance.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5522	DF/Pm	19.2"	14'	14'	To the Road Shoulder	14'	14'	96%	Minor asymmetry	Dense	Healthy	Straight	NAD	-	Side pruned for electrical wire clearance.	Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North West Property	5523	DF/Pm	17.2"	18'	18'	To the Road Shoulder	18'	18'	96%	Minor asymmetry	Dense	Healthy	Straight	NAD	-	Side pruned for electrical wire clearance. Slight bow at base.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5524	DF/Pm	13.3"	16'	16'	To the Road Shoulder	16'	16'	96%	Minor asymmetry	Dense	Healthy	Straight	NAD	-	Side pruned for electrical wire clearance.	Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5525	DF/Pm	18.9"	18'	18'	To the Road Shoulder	18'	18'	95%	Minor asymmetry	Dense	Healthy	Straight	NAD	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5526	DF/Pm	21.4"	18'	18'	To the Road Shoulder	18'	18'	95%	Minor asymmetry	Dense	Healthy	Straight	NAD	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5527	ScP/Ps	11.2"	15'	15'	To the Road Shoulder	15'	15'	98%	Major asymmetry	Thin	Utility Pruned / Topped	Leans South over the road	NAD	-		Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5528	FrCh/PsP	23.9 @ 24"	28'	To N. Prop. Line	28'	28'	28'	85%	Generally symmetrical	Average	Average	Fork at 5' W/ Included Bark to base	NAD	-	Some Brown Mold in foliage. Sap Sucker activity.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5529	WRC/Tp	Est. 40"	26'	26'	26'	26'	26'	96%	Generally symmetrical	Dense	Healthy	Fork at 5' W/ Included Bark to base	NAD	Restricted	Growing next to trailer additions. 4th trunk broken off at base--some wound wood production. However, poor structure.	Structure is Poor / Non-Viable	Significant	Remove for Safety.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North West Property	5530	BCw/Pt	12.4"	16'	16'	16'	16'	16'	55%	Minor asymmetry	Average	Average	Typical	Partially exposed	-		Fair / Viable	Non-Significant	Consider Removal
Subject Property	North West Property	5531	PW/SI	12.7"	16'	n/a	n/a	n/a	n/a	50%	Minor asymmetry	Average	Average	Center rot	Probable Base Rot	Probable Root Rot		Poor / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North West Property	5532	PW/SI	10.4"	18'	n/a	n/a	n/a	n/a	65%	Minor asymmetry	Average	Average	Center rot	Base Rot	Probable Root Rot	Trunks leans southeast.	Poor / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North West Property	5533	PW/SI	13.7"	16'	n/a	n/a	n/a	n/a	55%	Minor asymmetry	Average	Average	Center rot	Probable Base Rot	Probable Root Rot		Poor / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North West Property	5534	BCw/Pt	17.0"	24'	To N. Prop. Line	24'	24'	24'	70%	Minor asymmetry	Average	Healthy	Typical	Partially exposed	Surface	Rot pockets in branch collar wounds. Smaller trunk is dead with advanced decay that extends down into the buttress root. Main trunk has a bow at the base.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North West Property	5535	BCw/Pt	13.6"	18'	To N. Prop. Line	18'	18'	18'	75%	minor asymmetry	Average	Healthy	Typical	Exposed	Surface		Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North Central Property	5536	RA/Ar	Est. 12.5"	18'	n/a	n/a	n/a	n/a	90%	Generally symmetrical	Average	Average	Fork at 5'	-	-		Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North Central Property	5537	BCw/Pt	25.8"	20'	20'	20'	20'	20'	70%	Generally symmetrical	Dense	Healthy	Center rot	Base Rot	Root Rot	Calloused wound NW side base up 5.5 feet with advanced decay.	Poor / Non-Viable	Significant	Remove for Safety.
Subject Property	North Central Property	5538	CBS/Pp	16.2"	15'	15'	15'	15'	15'	80%	Generally symmetrical	Dense	Regenerating - Healthy	Fork at 16', Leans SW	NAD	Surface	mower damage and decay in surface roots. Spider mite infestation.	Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North Central Property	5539	FrCh/Pop	11.6"	16'	n/a	n/a	n/a	n/a	90%	Generally symmetrical	Thin	Average	Fork at 5', Center Rot	Base Rot	Probable Root Rot	Second codominant stem failed at base. Carpenter ant infestation. Gummosis.	Poor / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North Central Property	5540	BLM/Am	20.9"	20'	20'	To the Road Shoulder	20'	20'	85%	Generally symmetrical	Dense	Utility Pruned / Topped	Fork at 7' - 10' w/ included bark	Partially exposed	Restricted	Mower damage and decay in surface roots. Side pruned for electrical wire clearance. Growing near ditch and gravel driveway.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North Central Property	5541	OA/FI	22.7"	24'	24'	To the Road Shoulder	24'	24'	80%	Generally symmetrical	Dense	Healthy	Fork at 5.5', Typical	NAD	Restricted	Side pruned for electrical wire clearance.	Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North Central Property	5543	CBS/Pp	10.3"	11'	11'	To the Road Shoulder	11'	11'	80%	Minor asymmetry	Thin	Average	Slightly serpentine	Partially exposed	Surface	Side pruned for electrical wire clearance. Heavy spider mite infestation.	Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North Central Property	5544	CBS/Pp	9.7"	12'	12'	To the Road Shoulder	12'	12'	98%	Generally symmetrical	Average	Healthy	Slight Bow	NAD	-	Spider Mite infestation.	Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North Central Property	5545	WRC/Tp	24.7"	20'	20'	To the Road Shoulder	20'	20'	98%	Minor asymmetry	Average	Regenerating - Healthy	Previously Topped at ap. 22'	Exposed	-	Side pruned for electrical wire clearance. Growing out of rotten stump.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North Central Property	5546	WRC/Tp	24.5"	22'	22'	To the Road Shoulder	22'	22'	98%	Minor asymmetry	Average	Healthy	Straight	NAD	Restricted	Side pruned for electrical wire clearance.	Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North Central Property	5547	WRC/Tp	13.9"	16'	16'	To the Road Shoulder	16'	16'	95%	Generally symmetrical	Dense	Healthy	Straight	NAD	Restricted	Side pruned for electrical wire clearance.	Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North Central Property	5549	BWn/Jn	16.2"	26'	26'	26'	26'	26'	95%	Generally symmetrical	Dense	Healthy	Fork at 8', Typical	NAD	Surface	Mower damage and decay in surface roots.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North Central Property	5550	WRC/Tp	24.2"	18'	18'	18'	18'	18'	96%	Generally symmetrical	Dense	Healthy	Straight	NAD	-	Mower damage and decay in surface roots.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North Central Property	5551	WH/Th	31.1"	24'	24'	24'	24'	24'	98%	Minor asymmetry	Dense	Regenerating - Weak	Straight	Exposed	-	Growing out of rotten stump.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North Central Property	5552	RA/Ar	11.1"	21'	n/a	n/a	n/a	n/a	80%	minor asymmetry	Average	Weak	Leans SW	Exposed	-		Poor / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North Central Property	5553	RA/Ar	14.2"	16'	n/a	n/a	n/a	n/a	35%	Major asymmetry	Sparse	Broken out	Center rot	Base Rot	-	Fungal infection in trunk--Phytophthora.	Dying / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North East Property	5554	WRC/Tp	40.9"	26'	26'	26'	26'	26'	98%	Generally symmetrical	Dense	Healthy	Straight	Partially exposed	NAD	Slight bow at base.	Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5555	WRC/Tp	14.9"	16'	16'	16'	16'	16'	90%	Minor asymmetry	Dense	Healthy	Straight	Partially exposed	NAD		Very Good / Viable	Non-Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5556	WRC/Tp	16.2"	18'	18'	18'	18'	18'	95%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5557	WRC/Tp	15.1"	16'	16'	16'	16'	16'	95%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5558	WRC/Tp	16.5"	16'	16'	16'	16'	16'	90%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5559	WRC/Tp	17.3"	18'	18'	18'	18'	18'	90%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5560	WRC/Tp	19.7"	22'	22'	22'	22'	22'	90%	Major asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5561	WRC/Tp	36.7"	26'	26'	26'	26'	26'	95%	Generally symmetrical	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5562	WRC/Tp	20.8"	20'	20'	20'	20'	20'	90%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5563	WRC/Tp	22.3"	20'	20'	20'	20'	20'	90%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5564	WRC/Tp	17.3"	20'	20'	20'	20'	20'	90%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5565	WRC/Tp	15.0"	16'	16'	16'	16'	16'	95%	Minor asymmetry	Average	Healthy	Straight	NAD	NAD		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5566	WRC/Tp	12.3"	14'	14'	14'	14'	14'	60%	Minor asymmetry	Average	Average	Straight	NAD	NAD		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5567	WRC/Tp	17.9"	20'	20'	20'	20'	20'	90%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North Central Property	5568	RA/Ar	23.9" & 28.7"	0'	n/a	n/a	n/a	n/a	0%	n/a	None	Broken out	Fork at 2', Center Rot	Base Rot	Root Rot	Bark sloughing. Carpenter Ant infestation. Woodpecker activity.	Dead / Non-Viable	Not-Significant	Remove for Safety.
Subject Property	North East Property	5569	WRC/Tp	16.6"	18'	18'	18'	18'	18'	95%	Generally symmetrical	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North Central Property	5570	WRC/Tp	32.2"	22'	22'	22'	22'	22'	95%	Generally symmetrical	Dense	Healthy	Slight Bow	NAD	Root Rot		Very Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
																				measure s.
Subject Property	North Central Property	5571	BCw/Pt	38.4	34'	34'	34'	34'	34'	90%	Generally symmetrical	Dense	Healthy	Straight	Partially exposed	-		Very Good / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	North Central Property	5572	WRC/TP	46.8"	26'	26'	26'	26'	26'	98%	Generally symmetrical	Dense	Healthy	Fork at 22'	NAD	-		Very Good / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	North Central Property	5573	RA/Ar	8.4"	12'	n/a	n/a	n/a	n/a	35%	Major asymmetry	Thin	Dying	Leans E	NAD	Root Rot	Fungal infection in trunk--Phytophthora.	Poor / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North Central Property	5574	BLM/Am	26.8"	36'	36'	36'	36'	36'	95%	minor asymmetry	Dense	Healthy	Typical	NAD	-		Excellent / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	North Central Property	5575	RA/Ar	Est. 26.0"	0'	n/a	n/a	n/a	n/a	0%	n/a	None	Broken off at 18'	Center rot	Base Rot	Root Rot	Carpenter Ant infestation. Woodpecker activity.	Dead / Non-Viable	Significant	Remove for Safety.
Subject Property	North Central Property	5576	RA/Ar	27.4"	26'	n/a	n/a	n/a	n/a	85%	minor asymmetry	Average	Dead	Fork at 12' w/ included bark.	Base Rot	Root Rot	Trunk has center rot.. Rot pockets in branch collar wounds.	Poor / Non-Viable	Significant	Remove for Safety.
Subject Property	North Central Property	5577	RA/Ar	14.4"	16'	n/a	n/a	n/a	n/a	60%	Major asymmetry	Thin	Dead	Fork at 6', Leans NW	Base Rot	Root Rot	trunk has Center rot. Root collar is exposed. Fungal infection in trunk--Phytophthora.	Dying / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North Central Property	5578	RA/Ar	11.5"	20'	n/a	n/a	n/a	n/a	75%	Major asymmetry	Dense	Healthy	Typical	NAD	-		Good / Viable	Non-Significant	Potential to retain with tree protection measure s.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North Central Property	5579	RA/Ar	13.7"	28'	n/a	n/a	n/a	n/a	95%	Major asymmetry	Dense	Healthy	Leans NW	NAD	-		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North Central Property	5580	RA/Ar	14.1"	18'	n/a	n/a	n/a	n/a	90%	Major asymmetry	Average	Average	Leans NW	Exposed	-		Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North Central Property	5581	RA/Ar	Est. 14.0"	0'	n/a	n/a	n/a	n/a	0%	n/a	None	Broken out	Center rot	Base Rot	Root Rot	Broken off at 6 feet.	Dead / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North East Property	5583	WRC/Tp	52.5"	24'	24'	24'	24'	24'	90%	Generally symmetrical	Dense	Healthy	Forked at 18';	NAD	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5584	BLM/Am	10.2"	20'	20'	20'	20'	20'	90%	Major asymmetry	Dense	Healthy	Leans south	NAD	-		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5585	WRC/Tp	14.8"	16'	16'	16'	16'	16'	65%	Generally symmetrical	Dense	Healthy	Straight	NAD	-		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5586	WRC/Tp	15.2"	17'	17'	17'	17'	17'	65%	Generally symmetrical	Dense	Healthy	Straight	NAD	-		Very Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5587	WRC/Tp	44.7"	24'	24'	24'	24'	24'	95%	Generally symmetrical	Dense	Healthy	Straight	NAD	-		Very Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5588	WRC/Tp	23.7"	20'	20'	20'	20'	20'	85%	Major asymmetry	Dense	Regenerating healthy	Slight lean south, previously topped at 26'	NAD	-		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5589	WH/Th	18.6"	22'	22'	22'	22'	22'	85%	Minor asymmetry	Dense	Healthy	Slight bow	Partially exposed	-	Side pruned for electrical wire clearance.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5590	BCw/Pt	15.1"	20'	20'	20'	20'	20'	40%	Minor asymmetry	Dense	Healthy	Typical	Partially exposed	-		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5591	WRC/Tp	15.1"	16'	16'	To the Road Shoulder	16'	16'	85%	minor asymmetry	Dense	Healthy	Forked at 7' with included bark down 5 feet	NAD	-	The smaller fork was utility pruned off at 20 feet.	Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5592	WRC/Tp	14.1"	16'	16'	To the Road Shoulder	16'	16'	80%	Major asymmetry	Dense	Regenerating weak	Previously topped at 18'	NAD	-		Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5593	WRC/Tp	19.9"	16'	16'	To the Road Shoulder	16'	16'	85%	Minor asymmetry	Average	Healthy	Straight	NAD	-	Side pruned for electrical wire clearance.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5594	WRC/Tp	14.9"	16'	16'	16'	16'	16'	85%	Generally symmetrical	Average	Average	Straight	NAD	-		Good / Viable	Non-Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North Central Property	5595	WRC/Tp	42.5"	26'	26'	26'	26'	26'	98%	Minor asymmetry	Dense	Healthy	Straight	NAD	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North Central Property	5596	DF/Pm	44.6"	24'	24'	24'	24'	24'	65%	Generally symmetrical	Dense	Healthy	Straight	NAD	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North Central Property	5597	WH/Th	Est. 18.5"	18'	18'	18'	18'	18'	65%	Major asymmetry	Dense	Healthy	Slight Lean North	Exposed	Aerial	Growing out of rotten stump.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5598	WRC/Tp	37.8"	24'	24'	24'	24'	24'	75%	Minor asymmetry	Dense	Healthy	Bowed	Growing out of nurse stump, partially exposed	Aerial		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5599	BLM/Am	23.8"	28'	28'	28'	28'	28'	85%	Generally symmetrical	Dense	Healthy	Forked at 8', typical	Partially exposed	-		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5600	WRC/Tp	39.7"	24'	24'	24'	24'	24'	85%	Minor asymmetry	Dense	Healthy	Bowed	Growing out of nurse stump, partially exposed	Aerial		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North Central Property	5601	WRC/Tp	46.4"	26'	26'	To the Road Shoulder	26'	26'	95%	Generally symmetrical	Average	Healthy	Fork at 36'	NAD	Restricted	Base is app. 12 feet east of garage.	Good / Viable	Significant	Potential to retain with tree protection

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
																				measure s.
Subject Property	North East Property	5602	WRC/Tp	17.2"	16'	16'	16'	16'	16'	98%	Generally symmetrical	Dense	Healthy	Straight	NAD	-		Very Good / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	North East Property	5603	DF/Pm	12.3"	12'	12'	12'	12'	12'	35%	Minor asymmetry	Average	Average	Slight bow	Partially exposed	Surface		Fair / Viable	Non-Significant	Potential to retain with tree protection measure s.
Subject Property	North East Property	5604	WRC/Tp	20.7"	20'	20'	20'	20'	20'	98%	Major asymmetry	Dense	Healthy	Straight	NAD	-		Good / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	North East Property	5605	WRC/Tp	18.3"	20'	20'	20'	20'	20'	921%	Major asymmetry	Dense	Healthy	Straight	Partially exposed	Surface		Good / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	North East Property	5606	DF/Pm	20.7"	20'	20'	20'	20'	20'	96%	Minor asymmetry	Dense	Healthy	Straight	NAD	-		Good / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	North East Property	5607	DF/Pm	17.9"	20'	20'	20'	20'	20'	98%	Minor asymmetry	Dense	Healthy	Straight	Partially exposed	-	Calloused wound on the south side at the base. It appears compartmentalized.	Fair / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	North East Property	5608	DF/Pm	20.3"	22'	22'	22'	22'	22'	85%	Minor asymmetry	Dense	Healthy	Straight	NAD	-		Very Good / Viable	Significant	Potential to retain with tree protection

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
																				measure s.
Subject Property	North East Property	5609	RA/Ar	11.9"	16'	n/a	n/a	n/a	n/a	92%	Major asymmetry	Average	Weak	Leans west	Partially exposed	-	Next to old barbed wire fence.	Poor / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North East Property	5610	DF/Pm	18.4"	16'	16'	16'	16'	16'	75%	Minor asymmetry	Dense	Healthy	Straight	NAD	-		Good / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	North East Property	5611	RA/Ar	11.6"	16'	n/a	n/a	n/a	n/a	13%	Major asymmetry	Sparse	Broken out	Center rot	Base Rot	Rot	Woodpecker activity and carpenter ant infestation.	Dying / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North East Property	5612	DF/Pm	35.3"	24'	24'	24'	24'	24'	65%	Minor asymmetry	Average	Average	Straight	Partially exposed	-		Fair / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	North East Property	5613	WH/Th	24.4"	24'	n/a	n/a	n/a	n/a	90%	Minor asymmetry	Dense	Overtopped by 5612	Forked at 6', center rot	Base Rot	-	Growing out of nurse stump. Carpenter ant infestation.	Poor / Non-Viable	Significant	Remove for Safety.
Subject Property	North East Property	5614	C/Rp	11.7"	15'	n/a	n/a	n/a	n/a	45%	Major asymmetry	Thin	Weak	Forked at 12', center rot	Probable Base Rot	-	Dead branches in canopy. Carpenter ant infestation. Woodpecker activity. Fungal fruiting bodies.	Poor / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North East Property	5615	RA/Ar	12.5"	20'	n/a	n/a	n/a	n/a	60%	Minor asymmetry	Average	Average	Forked at 3' w/ included bark down to base	Partially exposed	-	Internal structural weakness.	Poor / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North East Property	5616	RA/Ar	11.8"	20'	n/a	n/a	n/a	n/a	160%	Minor asymmetry	Average	Average	Forked at 3' w/ included bark down to base	Partially exposed	-	Internal structural weakness.	Poor / Non-Viable	Non-Significant	Remove for Safety.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5617	RA/Ar	17.8"	20'	n/a	n/a	n/a	n/a	40%	Minor asymmetry	Thin	Weak	Forked at 20', center rot	Partially exposed	-	Base rot. The northern trunk is broken off at 30 feet with advanced decay, carpenter ant infestation and woodpecker activity. The decay extends into the main trunk.	Poor / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North East Property	5618	RA/Ar	14.2"	16'	16'	16'	16'	16'	40%	Minor asymmetry	Average	Average	Slightly serpentine	Partially exposed	-	English ivy up 90%.	Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5619	WRC/Tp	43.0"	26'	26'	26'	26'	26'	90%	Generally symmetrical	Average	Healthy	Slight lean east, center rot	Base Rot	-	Carpenter ant infestation.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5619	WRC/Tp	38.3"	24'	24'	24'	24'	24'	75%	Minor asymmetry	Average	Average	Serpentine	Partially exposed	-		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5620	WH/Th	Est. 16.5, 14.5 & 7.0"	20'	20'	20'	20'	20'	90%	Minor asymmetry	Average	Healthy	Forked at base on top of an old growth stump	Growing out of nurse stump, partially exposed	Aerial		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5622	WRC/Tp	11.9"	12'	12'	12'	12'	12'	60%	Generally symmetrical	Average	Healthy	Straight	NAD	-		Good / Viable	Non-Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Right of way	NE 143rd Place	5623	WRC/Tp	51.3"	24'	To road shoulder	24'	24'	24'	98%	Minor asymmetry	Dense	Healthy	Straight	Partially exposed	Restricted	Base is app. 8 feet south of the ditch and 3 feet east of water meter.	Very Good / Viable	Significant	Potential to retain with tree protection measures.
Off property	West of West Property line South Property	5624	WRC/Tp	28.5"	16'	16'	16'	16'	16'	90%	Minor asymmetry	Average	Healthy	Straight	Bowed at base	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Off property	West of West Property line South Property	5625	WRC/Tp	28.2"	16'	16'	16'	16'	16'	85%	Major asymmetry	Average	Average	Straight	NAD	-	Base is against # 5626	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5626	BLM/Am	45.1"	35'	n/a	n/a	n/a	n/a	75%	Major asymmetry	Dense	Healthy	Center rot	Base Rot	Root Rot	Base is against # 5625. Fungal fruiting bodies.	Poor / Non-Viable	Significant	Remove for Safety.
Subject Property	South property	5627	WRC/Tp	21.3"	20'	20'	20'	20'	20'	98%	Minor asymmetry	Dense	Healthy	Slight lean E	NAD	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5628	WRC/Tp	28.1"	18'	18'	18'	18'	18'	98%	Minor asymmetry	Dense	Healthy	Straight	NAD	-		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5629	WRC/Tp	50.4"	22'	To road shoulder	22'	22'	22'	98%	Minor asymmetry	Dense	Healthy	Straight	NAD	-	Base is app. 6 feet south of fire hydrant.	Very Good / Viable	Significant	Potential to retain with tree protection measures.
Right of way	NE 143rd Place	5630	WRC/Tp	42.2"	20'	To road shoulder	20'	20'	20'	98%	minor asymmetry	Dense	Healthy	Straight	NAD	-	Base is app. 6 feet south of road shoulder and 3 feet east of fire hydrant.	Very Good / Viable	Significant	Potential to retain with tree protection

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
																				measure s.
Subject Property	South property	5631	WRC/Tp	46.9"	24	24'	24'	24'	24'	98%	Generally symmetrical	Dense	Healthy	Straight	NAD	-	Base is app. 6 feet south of road shoulder.	Very Good / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	South property	5632	WRC/Tp	20.3"	16'	16'	16'	16'	16'	98%	Minor asymmetry	Dense	Healthy	Slight lean north	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	South property	5633	WRC/Tp	Est. 23.0" & 21.0"	20'	20'	20'	20'	20'	103%	Major asymmetry	Dense	Healthy	Forked at base and 8'	Exposed	Aerial	Growing out of nurse stump.	Good / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	South property	5634	WRC/Tp	51.7"	24'	24'	24'	24'	24'	90%	Minor asymmetry	Dense	Regenerating healthy	Forked at 44' with 3 tops	NAD	NAD	Electrical conduit attached to north side.	Good / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	South property	5635	WRC/Tp	12.3"	16'	16'	16'	16'	16'	98%	Major asymmetry	Dense	Healthy	Slight lean northeast	NAD	NAD		Good / Viable	Non-Significant	Potential to retain with tree protection measure s.
Subject Property	South property	5636	WRC/Tp	46.0"	22'	22'	22'	22'	22'	98%	Generally symmetrical	Dense	Healthy	Straight	NAD	Restricted	Base is approximately 4 feet from gravel driveway.	Very Good / Viable	Significant	Potential to retain with tree protection measure s.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	South property	5637	WRC/Tp	Est. 42.0	20'	20'	20'	20'	20'	98%	Generally symmetrical	Dense	Healthy	Straight	NAD	NAD		Excellent / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5638	WRC/Tp	46.4"	24'	24'	24'	To road shoulder	24'	99%	Generally symmetrical	Dense	Healthy	Straight		Restricted		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5639	WRC/Tp	45.0"	26'	26'	26'	26'	26'	98%	Minor asymmetry	Dense	Healthy	Straight	Partially exposed	Restricted	Base is against 5640.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5640	WRC/Tp	47.6"	22'	22'	22'	22'	22'	95%	Major asymmetry	Dense	Healthy	Bowed	Partially exposed	Restricted	Base is against 5639 and approximately 12 feet east of block retaining wall and the northeast corner of the house.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5641	SF/Ap	20.6"	16'	16'	To the Road Shoulder	16'	16'	50%	Generally symmetrical	Dense	Healthy	Straight	NAD	Restricted	Growing between the gravel driveways of 27066, the North East Property, next to 5645 and 5643.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5642	SF/Ap	15.0"	20'	20'	To the Road Shoulder	20'	20'	98%	Minor asymmetry	Dense	Healthy	Straight	NAD	Restricted	Growing between the gravel driveways of 27066, the Northeast Property, next to 5645 & 5643.. Side pruned for electrical wire clearance.	Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5643	TT/Lt	16.1"	20'	20'	To the Road Shoulder	20'	20'	50%	Generally symmetrical	Dense	Healthy	Typical	NAD	Restricted	Side pruned for electrical wire clearance.	Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5644	SF/Ap	21.3"	26'	26'	26'	To driveway	26'	96%	Minor asymmetry	Dense	Regenerating healthy	Forked at 8'	NAD	Restricted	Growing between the gravel driveways of 27066, the North East Property, next to 5645 and 5643.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5645	AS/Po	19.7"	24'	24'	24'	24'	24'	65%	Minor asymmetry	Dense	Healthy	Leans southwest	NAD	Restricted	Growing between the gravel driveways. English ivy up 75%.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5646	WRC/Tp	38.5"	26'	26'	26'	To the house	26'	95%	Generally symmetrical	Dense	Healthy	Straight	NAD	Restricted	Base is approximately 3 feet west of gravel driveway and approximately 20 feet west of house.	Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5647	WRC/Tp	39.6"	24'	24'	24'	To the house	24'	98%	Generally symmetrical	Dense	Healthy	Straight	NAD	Restricted		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5648	WRC/Tp	44.4"	26'	To the garage	26'	26'	26'	98%	Generally symmetrical	Dense	Regenerating healthy	Previously topped at 60'	NAD	Restricted	Next to the gravel driveway.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5649	WRC/Tp	14.1"	16'	16'	16'	16'	16'	95%	Minor asymmetry	Dense	Healthy	Straight	NAD	Restricted	Next to the gravel driveway.	Very Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5650	WRC/Tp	14.1"	16'	16'	16'	16'	16'	98%	Minor asymmetry	Dense	Healthy	Straight	NAD	Restricted	Next to the gravel driveway.	Very Good / Viable	Non-Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
						North	South	East	West											
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE					LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5651	WRC/Tp	40.1"	20'	20'	20'	20'	20'	98%	Minor asymmetry	Dense	Regenerating healthy	Forked at 26' with included bark	NAD	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5652	WRC/Tp	40.3"	22'	22'	22'	22'	22'	95%	Generally symmetrical	Dense	Healthy		NAD	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5656	FrCh/Psp	11.9"	18'	18'	18'	18'	18'	35%	Major asymmetry	Dense	Healthy	Leans southeast	NAD	-	English ivy up 80%.	Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5657	FrCh/Psp	11.4"	20'	20'	20'	20'	20'	40%	Generally symmetrical	Dense	Healthy	Typical	NAD	-		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5658	WRC/Tp	15.7"	16'	16'	16'	16'	16'	98%	Generally symmetrical	Dense	Healthy	Straight	NAD	-		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5659	EL/PI	13.9"	20'	20'	20'	20'	20'	90%	Minor asymmetry	Dense	Regenerating healthy	Leans south	NAD	-		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5660	EL/PI	15.7"	22'	22'	22'	22'	22'	90%	Minor asymmetry	Dense	Regenerating healthy	Forked at 3.5'	NAD	-		Good / Viable	Non-Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5661	EL/PI	7.5, 7.4 & 7.3"	24'	24'	To the Road Shoulder	24'	24'	90%	Generally symmetrical	Dense	Regenerating healthy	Forked at base	NAD	-	The tree trunks are = to a single trunk of 12.8 inches. Therefore, the tree is <i>Non-Significant</i> .	Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5662	WH/Th	18.9"	16'	16'	16'	16'	16'	70%	Generally symmetrical	Average	Average	Slight lean southeast	Partially exposed	-		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5663	WRC/Tp	10.7"	12'	12'	12'	12'	12'	45%	Generally symmetrical	Average	Average	Straight	NAD	-		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5664	WH/Th	10.4"	16'	16'	16'	16'	16'	65%	Major asymmetry	Dense	Healthy	Straight	Partially exposed	-		Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5665	WH/Th	12.8"	15'	15'	15'	15'	15'	90%	Minor asymmetry	Dense	Healthy	Slight lean south	Partially exposed	-		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5669	WRC/Tp	16.5"	12'	12'	12'	12'	12'	95%	Generally symmetrical	Dense	Healthy	Straight	NAD	Restricted	Base is approximately 6 feet east of sidewalk and driveway.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5670	GS/Sg	30.1"	18'	18'	18'	18'	18'	98%	Minor asymmetry	Dense	Healthy	Slight lean south	NAD	NAD	At 27066--the Northeast property. Growing in a row parallel to the south property line, east of the existing driveway, and north of the NE 143rd Place road shoulder.	Very Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
						North	South	East	West											
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE					LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5671	GS/Sg	19.8"	15'	15'	15'	15'	15'	98%	Minor asymmetry	Dense	Healthy	Slight lean south	NAD	NAD	At 27066--the Northeast property. Growing in a row parallel to the south property line, east of the existing driveway, and north of the NE 143rd Place road shoulder.	Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5672	GS/Sg	16.3"	18'	18'	18'	18'	18'	98%	Minor asymmetry	Dense	Healthy	Slight lean south	NAD	NAD	At 27066--the Northeast property. Growing in a row parallel to the south property line, east of the existing driveway, and north of the NE 143rd Place road shoulder.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5673	GS/Sg	16.1"	16'	16'	16'	16'	16'	98%	Minor asymmetry	Dense	Healthy	Slight lean south	NAD	NAD	At 27066--the Northeast property. Growing in a row parallel to the south property line, east of the existing driveway, and north of the NE 143rd Place road shoulder.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5674	WRC/Tp	52.5"	28'	28'	28'	28'	28'	95%	Generally symmetrical	Dense	Regenerating healthy	Forked at 34'	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Right of way	272nd Pl NE	5675	BCw/Pt	10.3"	36'	n/a	n/a	n/a	n/a	65%	Generally symmetrical	Dense	Healthy	Straight	NAD	NAD		Fair / Viable	Non-Significant	Consider Removal
Subject Property	North East Property	5676	BCw/Pt	12.6"	24'	n/a	n/a	n/a	n/a	65%	Major asymmetry	Dense	Average	Leans east over road	NAD	NAD		Fair / Viable	Non-Significant	Consider Removal
Subject Property	North East Property	5677	NF/Ap	8.0"	0'	n/a	n/a	n/a	n/a	0%	None	None	Dead	Straight	NAD	NAD		Dead / Non-Viable	Non-Significant	Remove for Safety.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5678	WRC/Tp	37.0"	24'	24'	24'	24'	24'	98%	minor asymmetry	Dense	Healthy	Straight	NAD	NAD	Base is against 5679.	Good / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	North East Property	5679	WRC/Tp	31.4"	22'	22'	22'	22'	22'	98%	minor asymmetry	Dense	Healthy	Center rot	NAD	NAD	Base is against 5678.	Good / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	North East Property	5680	WRC/Tp	45.3"	26'	26'	26'	26'	26'	98%	minor asymmetry	Dense	Healthy	Slight lean east	NAD	NAD		Fair / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	North East Property	5681	WRC/Tp	11.6"	14'	14'	14'	14'	14'	90%	Generally symmetrical	Average	Average	Straight	NAD	NAD		Good / Viable	Non-Significant	Potential to retain with tree protection measure s.
Subject Property	North East Property	5682	WRC/Tp	41.6"	28'	28'	28'	28'	28'	98%	Generally symmetrical	Dense	Healthy	Forked at 6', center rot	NAD	Restricted	Base is approximately 12 feet north of foundation.	Very Good / Viable	Significant	Potential to retain with tree protection measure s.
Subject Property	North East Property	5687	WRC/Tp	13.8"	12'	12'	12'	12'	12'	45%	Generally symmetrical	Average	Average	Straight	Partially exposed	NAD	Growing out of nurse log.	Good / Viable	Non-Significant	Potential to retain with tree protection measure s.
Subject Property	North East Property	5688	WH/Th	Est. 16.5"	16'	16'	16'	16'	16'	70%	Minor asymmetry	Dense	Healthy	Slight bow	Exposed	Aerial	Growing out of nurse stump.	Good / Viable	Significant	Potential to retain with tree protection measure s.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
						North	South	East	West											
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE					LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5689	WRC/Tp	45.6"	26'	26'	26'	26'	26'	90%	Generally symmetrical	Average	Healthy	Forked at 22'	Partially exposed	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5690	WRC/Tp	38.5"	24'	24'	24'	24'	24'	90%	Generally symmetrical	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5691	WRC/Tp	40.3"	20'	20'	20'	20'	20'	98%	Generally symmetrical	Average	Healthy	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5692	WRC/Tp	20.4"	20'	20'	20'	20'	20'	90%	Major asymmetry	Average	Healthy	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5693	WRC/Tp	37.0"	20'	20'	20'	20'	20'	75%	Generally symmetrical	Average	Healthy	Straight	NAD	NAD		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5694	BLM/Am	36.7"	30'	30'	30'	30'	30'	65%	Major asymmetry	Dense	Healthy	Typical	Exposed	NAD		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5695	WRC/Tp	39.4"	22'	22'	22'	22'	22'	85%	Minor asymmetry	Average	Average	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5696	WRC/Tp	36.9"	22'	22'	22'	22'	22'	70%	Minor asymmetry	Average	Average	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5697	BLM/Am	24.9"	28'	28'	28'	28'	28'	65%	Major asymmetry	Dense	Healthy	Typical	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5698	WRC/Tp	29.2"	16'	16'	16'	16'	16'	45%	Generally symmetrical	Average	Average	Straight	NAD	NAD		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5699	BLM/Am	20.7"	26'	26'	26'	26'	26'	45%	Major asymmetry	Dense	Healthy	Typical	Exposed	Aerial	Growing out of nurse stump.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5700	WRC/Tp	31.2"	16'	16'	16'	16'	16'	85%	Major asymmetry	Average	Average	Slight lean southwest	NAD	NAD	Open wound on the southeast side at 2-9 feet. Center rot and carpenter ant infestation.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5701	WRC/Tp	32.4"	20'	20'	20'	20'	20'	70%	Minor asymmetry	Average	Regenerating average	Previously topped at 56'	NAD	NAD		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5702	WRC/Tp	37.6"	24'	24'	24'	24'	24'	70%	Generally symmetrical	Average	Average	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5703	DF/Pm	25.8"	16'	n/a	n/a	n/a	n/a	30%	Minor asymmetry	Average	Weak	Leans west, center rot	Base Rot	Rot		Poor / Non-Viable	Significant	Remove for Safety.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5704	DF/Pm	34.4"	20'	n/a	n/a	n/a	n/a	35%	Generally symmetrical	Average	Average	Center rot	Base Rot	Rot	Calloused wound on the south side from the base up 9 feet. Carpenter ant infestation. Woodpecker activity.	Poor / Non-Viable	Significant	Remove for Safety.
Subject Property	North East Property	5705	WRC/Tp	34.8"	24'	24'	24'	24'	24'	85%	Generally symmetrical	Dense	Regenerating healthy	Previously topped at 56'	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5706	WRC/Tp	43.6"	24'	24'	24'	24'	24'	85%	Minor asymmetry	Dense	Healthy	Slight lean east	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5707	WRC/Tp	24.6"	16'	16'	16'	16'	16'	65%	Major asymmetry	Average	Average	Center rot	Base Rot	NAD	Open wound on the east side from the base up 10'. Carpenter ant infestation. Woodpecker activity.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5708	BLM/Am	Est. 26.0, 24.0 & 22.0"	28'	n/a	n/a	n/a	n/a	50%	Minor asymmetry	Dense	Healthy	Forked at 5 & 9', center rot	Base Rot	Probable Root Rot	Dead branches in canopy.	Poor / Non-Viable	Significant	Remove for Safety.
Subject Property	North East Property	5709	WRC/Tp	12.2"	14'	14'	14'	14'	14'	90%	Generally symmetrical	Dense	Healthy	Typical	NAD	NAD	Base is against 5710	Very Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5710	WRC/Tp	9.5"	14'	14'	14'	14'	14'	190%	Generally symmetrical	Dense	Healthy	Typical	NAD	NAD	Base is against 5709.	Very Good / Viable	Non-Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5712	BLM/Am	38.6"	26'	26'	26'	26'	26'	65%	Minor asymmetry	Dense	Healthy	Typical	Exposed	NAD		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5713	DF/Pm	52.6"	28'	28'	28'	28'	28'	30%	Generally symmetrical	Dense	Broken out	Bowed	Partially exposed	NAD	Growing out of nurse log.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5714	WRC/Tp	46.7"	26'	26'	26'	26'	26'	70%	Minor asymmetry	Average	Average	Straight	Partially exposed	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5715	DF/Pm	41.8"	26'	n/a	n/a	n/a	n/a	40%	Generally symmetrical	Average	Average	Straight	Exposed	Surface	Growing out of nurse log. Fungal fruiting bodies.	Poor / Non-Viable	Significant	Remove for Safety.
Subject Property	North East Property	5718	WRC/Tp	14.4"	16'	16'	16'	16'	16'	60%	Minor asymmetry	Average	Average	Straight	NAD	NAD		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5719	WRC/Tp	14.2"	18'	18'	18'	18'	18'	60%	Minor asymmetry	Average	Average	Slight bow	NAD	NAD		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5720	WRC/Tp	38.4"	22'	22'	22'	22'	22'	95%	Generally symmetrical	Average	Average	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5721	WRC/Tp	43.3"	24'	24'	24'	24'	24'	90%	Generally symmetrical	Average	Average	Center rot	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
						North	South	East	West											
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE					LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5722	WRC/Tp	11.4"	12'	12'	12'	12'	12'	80%	Major asymmetry	Average	Average	Straight	NAD	NAD	Barbed wire fence nailed to the east side of the trunk.	Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5724	WRC/Tp	10.6"	14'	14'	14'	14'	14'	45%	Major asymmetry	Average	Regenerating average	Forked at 30'	NAD	NAD		Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5725	WRC/Tp	16.1"	18'	18'	18'	18'	18'	60%	Major asymmetry	Average	Healthy	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5726	WRC/Tp	17.4"	16'	16'	16'	16'	16'	70%	Generally symmetrical	Dense	Healthy	Straight	Bowed	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5727	WRC/Tp	16.5"	16'	16'	16'	16'	16'	60%	Major asymmetry	Average	Average	Straight	NAD	NAD		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5728	WRC/Tp	33.2"	28'	28'	28'	28'	28'	90%	Major asymmetry	Average	Average	Straight	NAD	NAD		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5729	WRC/Tp	9.3"	9'	9'	9'	9'	9'	45%	Major asymmetry	Thin	Weak	Straight	NAD	NAD		Fair / Viable	Non-Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5730	WH/Th	37.7"	28'	28'	28'	28'	28'	85%	Generally symmetrical	Dense	Healthy	Straight	Exposed	NAD	Growing out of nurse stump.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5731	WRC/Tp	16.4"	16'	16'	16'	16'	16'	80%	Major asymmetry	Average	Average	On the ground for 8' then vertical	Exposed	NAD	Base is growing around the base of 5730 like a giant girdling root.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5731	WRC/Tp	13.2"	12'	n/a	n/a	n/a	n/a	65%	Minor asymmetry	Thin	Weak	Center rot	Base Rot	Probable Root Rot		Poor / Non-Viable	Non-Significant	Remove for Safety.
Right of way	NE 272nd Place	5732	WRC/Tp	39.4"	28'	28'	28'	28'	28'	98%	Generally symmetrical	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5733	WRC/Tp	40.8"	26'	n/a	n/a	n/a	n/a	55%	Generally symmetrical	Sparse	Dead	Center rot	Base Rot	Probable Root Rot	Woodpecker activity and carpenter ant infestation.	Dying / Non-Viable	Significant	Remove for Safety.
Subject Property	North East Property	5734	WH/Th	n/a	0'	n/a	n/a	n/a	n/a	0%	n/a	None	Dead	Center rot	Base Rot	Root Rot	Blown over or cut down--tree died years ago.	Dead / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North East Property	5735	WH/Th	23.4"													Tree died and was cut down by the owner. Stump showed evidence of advanced root rot	Dead / Non-Viable	Significant	Remove for Safety.
Subject Property	North East Property	5736	WRC/Tp	32.7"	24'	24'	24'	24'	24'	80%	Minor asymmetry	Average	Average	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5737	WRC/Tp	10.0"	9'	n/a	n/a	n/a	n/a	20%	Major asymmetry	Sparse	Weak	Serpentine		Restricted	Base is engulfed by 5736.	Poor / Non-Viable	Non-Significant	Remove for Safety.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
						North	South	East	West											
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE					LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5738	WRC/Tp	42.6"	26'	26'	26'	26'	26'	85%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5739	WRC/Tp	12.0 & 4.2"	12'	12'	12'	12'	12'	90%	Major asymmetry	Dense	Healthy	Forked at base	NAD	NAD	Trunk diameters of 12.0 and 4.2 inches = a single trunk of 12.7 inches.	Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5740	WRC/Tp	13.4"	10'	10'	10'	10'	10'	35%	Major asymmetry	Thin	Weak	Straight	NAD	NAD		Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5741	WRC/Tp	41.8"	26'	26'	26'	26'	26'	75%	Generally symmetrical	Average	Average	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5742	WRC/Tp	14.3"	12'	12'	12'	12'	12'	40%	Major asymmetry	Thin	Average	Straight	NAD	NAD		Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5743	WRC/Tp	39.4"	24'	24'	24'	24'	24'	85%	Minor asymmetry	Average	Average	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5744	WRC/Tp	30.5"	24'	24'	24'	24'	24'	80%	Minor asymmetry	Average	Average	Straight	Unusual butt swell	NAD		Fair / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5745	GF/Ag	10.7"	12'	12'	12'	12'	12'	50%	Major asymmetry	Average	Average	Straight	NAD	NAD		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5746	WRC/Tp	33.7"	22'	22'	22'	22'	22'	95%	Major asymmetry	Average	Healthy	Straight	NAD	NAD	Open wound on the south side from the base up 6 feet with advanced decay, carpenter ant infestation and woodpecker activity. Base is against 5747.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5747	WRC/Tp	28.5"	20'	20'	20'	20'	20'	95%	Major asymmetry	Average	Healthy	Straight	NAD	NAD	Base is against 5746.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5748	WRC/Tp	14.8"	12'	12'	12'	12'	12'	95%	Major asymmetry	Average	Average	Straight	Exposed	Surface	Growing out of nurse stump.	Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5749	WRC/Tp	26.0"	20'	20'	20'	20'	20'	90%	Minor asymmetry	Average	Healthy	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5750	WRC/Tp	24.4"	24'	24'	24'	24'	24'	95%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5752	WRC/Tp	26.2"	18'	18'	18'	18'	18'	90%	Generally symmetrical	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5755	WRC/Tp	8.0"	9'	n/a	n/a	n/a	n/a	60%	Major asymmetry	Thin	Weak	Center rot	Base Rot	Rot		Dying / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North East Property	5756	WRC/Tp	23.1"	16'	16'	16'	16'	16'	75%	Minor asymmetry	Average	Average	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5757	WRC/Tp	23.5"	20'	20'	20'	20'	20'	80%	Minor asymmetry	Dense	Healthy	Center rot	NAD	NAD	Woodpecker activity and carpenter ant infestation.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5758	WRC/Tp	26.2"	22'	22'	22'	22'	22'	90%	minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5759	WH/Th	18.8"	16'	16'	16'	16'	16'	35%	Major asymmetry	Average	Average	Straight	Partially exposed	NAD	English ivy up 50%.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5760	DF/Pm	33.9"	28'	28'	28'	28'	28'	50%	Minor asymmetry	Average	Broken out	Straight	NAD	NAD		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5761	DF/Pm	37.1"	30'	30'	30'	30'	30'	50%	Minor asymmetry	Average	Average	Bowed	NAD	NAD		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5762	WH/Th	28.0"	20'	20'	20'	20'	20'	85%	Minor asymmetry	Dense	Healthy	Straight	Partially exposed	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5763	WH/Th	28.6"	28'	28'	28'	28'	28'	50%	Minor asymmetry	Average	Average	Straight	NAD	NAD		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5764	WRC/Tp	10.7"	12'	12'	12'	12'	12'	85%	Major asymmetry	Average	Average	Bowed	Exposed	Rot		Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5765	BLM/Am	43.8"	42'	42'	42'	42'	42'	50%	Minor asymmetry	Dense	Healthy	Typical	Exposed	NAD		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5766	WRC/Tp	33.1"	20'	20'	20'	20'	20'	95%	Generally symmetrical	Average	Average	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5767	BLM/Am	28.7"	36'	36'	36'	36'	36'	40%	Generally symmetrical	Average	Average	Forked at 26'	NAD	NAD		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5768	WRC/Tp	48.4"	24'	24'	24'	24'	24'	98%	minor asymmetry	Dense	Healthy	Straight	Partially exposed	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5769	WRC/Tp	16.1"	16'	16'	16'	16'	16'	98%	Generally symmetrical	Dense	Healthy	Straight	Partially exposed	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5770	BLM/Am	18.0"	28'	n/a	n/a	n/a	n/a	55%	Major asymmetry	Average	Average	Center rot	Base Rot	Rot	Rot pockets in branch collar wounds.	Poor / Non-Viable	Significant	Remove for Safety.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
																	Carpenter ant infestation.			
Subject Property	North East Property	5771	BLM/Am	13.2"	29'	n/a	n/a	n/a	n/a	155%	Major asymmetry	Average	Average	Center rot	Base Rot	Rot	Rot pockets in branch collar wounds. Carpenter ant infestation.	Poor / Non-Viable	Non-Significant	Remove for Safety.
Subject Property	North East Property	5772	WRC/Tp	46.5"	28'	28'	28'	28'	28'	98%	minor asymmetry	Dense	Healthy	Slight lean west	NAD	NAD	English ivy up 20 feet.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5773	WRC/Tp	30.1"	20'	20'	20'	20'	20'	90%	Major asymmetry	Average	Average	Straight	Partially exposed	NAD	Growing out of nurse stump. English ivy up 40 feet.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5774	WRC/Tp	26.2"	20'	20'	20'	20'	20'	90%	Major asymmetry	Dense	Healthy	Straight	NAD	NAD	English ivy up 80 feet. Sap sucker activity.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5775	WH/Th	13.1"	14'	14'	14'	To the east property line	14'	98%	Major asymmetry	Dense	Healthy	Bowed	NAD	NAD		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5776	WRC/Tp	23.6"	20'	20'	20'	20'	20'	80%	Generally symmetrical	Average	Healthy	Straight	Partially exposed	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5777	WRC/Tp	15.6"	14'	n/a	n/a	n/a	n/a	75%	Major asymmetry	Average	Average	Serpentine, Center Rot	Base Rot	Root Rot	Carpenter Ant infestation.	Poor / Non-Viable	Non-Significant	Remove for Safety.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5778	ScP/Ps	14.0"	16'	16'	16'	16'	16'	90%	Minor asymmetry	Average	Average	Straight	Exposed	NAD	Growing out of nurse stump.	Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5779	BLM/Am	14.5"	22'	22'	22'	22'	22'	60%	Minor asymmetry	Dense	Healthy	Forked at 16'	NAD	NAD		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5780	WRC/Tp	18.6 & 9.7"	16'	16'	16'	16'	16'	90%	Minor asymmetry	Dense	Healthy	Slightly serpentine	Partially exposed	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5781	WRC/Tp	20.1"	20'	20'	20'	20'	20'	90%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5782	WRC/Tp	10.7"	12'	12'	12'	12'	12'	80%	Major asymmetry	Average	Average	Bowed	Partially exposed	NAD		Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5783	WRC/Tp	26.1"	18'	n/a	n/a	n/a	n/a	80%	Major asymmetry	Average	Healthy	Center rot	Base Rot	Rot		Poor / Non-Viable	Significant	Remove for Safety.
Subject Property	North East Property	5784	WH/Th	37.7"	26'	26'	26'	26'	26'	50%	Generally symmetrical	Dense	Healthy	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5785	WRC/Tp	13.9"	16'	16'	16'	16'	16'	90%	Minor asymmetry	Dense	Healthy	Bowed	NAD	NAD		Very Good / Viable	Non-Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5786	WRC/Tp	19.2"	16'	To the north property line	16'	16'	16'	95%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5787	WRC/Tp	15.6"	16'	To the north property line	16'	16'	16'	95%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5788	WRC/Tp	18.4"	18'	To the north property line	18'	18'	18'	95%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5789	WRC/Tp	11.5"	14'	To the north property line	14'	14'	14'	95%	Major asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5790	WRC/Tp	15.8"	18'	To the north property line	18'	18'	18'	85%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5791	DF/Pm	15.4"	18'	To the north property line	18'	18'	18'	75%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5792	WRC/Tp	42.8"	34'	To the north property line	34'	34'	34'	90%	Generally symmetrical	Average	Healthy	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5793	WRC/Tp	21.4"	28'	28'	28'	28'	28'	95%	Generally symmetrical	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5794	WRC/Tp	17.2"	16'	To the north property line	16'	16'	16'	95%	Major asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5795	DF/Pm	29.3"	26'	26'	26'	26'	26'	40%	Generally symmetrical	Dense	Healthy	Straight	NAD	NAD	English ivy up 70%.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5796	WRC/Tp	29.2"	22'	22'	22'	22'	22'	95%	Generally symmetrical	Dense	Healthy	Straight	Partially exposed	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5797	WRC/Tp	22.9"	16'	n/a	n/a	n/a	n/a	90%	Generally symmetrical	Average	Healthy	Center rot	Internal structural weaknesses	NAD	Calloused sound on the north side from 2-26 feet with decay.	Poor / Non-Viable	Significant	Remove for Safety.
Subject Property	North East Property	5798	WRC/Tp	11.2"	14'	To the north property line	14'	14'	14'	5%	Major asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5799	BLM/Am	34.6"	44'	44'	44'	44'	44'	60%	Generally symmetrical	Dense	Healthy	Leans north	Exposed	Aerial	Growing out of nurse stump.	Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
						North	South	East	West											
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE					LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5800	WRC/Tp	37.8"	20'	20'	20'	20'	20'	95%	Generally symmetrical	Dense	Healthy	Straight	Partially exposed	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5801	WRC/Tp	27.4"	22'	22'	22'	22'	22'	85%	Generally symmetrical	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5802	WRC/Tp	9.8"	12'	12'	12'	12'	12'	80%	Major asymmetry	Average	Average	Straight	Partially exposed	NAD		Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5803	DF/Pm	42.2"	34'	34'	34'	34'	34'	50%	Generally symmetrical	Dense	Healthy	Serpentine	Exposed	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5804	WRC/Tp	11.1"	12'	12'	12'	12'	12'	95%	Generally symmetrical	Average	Average	Straight	Partially exposed	NAD		Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5805	DF/Pm	34.3"	28'	28'	28'	28'	28'	65%	Minor asymmetry	Average	Average	Center rot	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5806	DF/Pm	43.9"	28'	28'	28'	28'	28'	65%	Minor asymmetry	Average	Average	Straight	NAD	NAD	Popping bark.	Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5807	WRC/Tp	22.5 & 22.4"	26	To road shoulder	26'	26'	26'	90%	Generally symmetrical	Average	Average	Forked at 3.5'	Exposed	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5808	BLM/Am	37.0"	30'	30'	30'	30'	30'	75%	Generally symmetrical	Dense	Healthy	Forked at 45'	Exposed	NAD		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5809	WRC/Tp	37.4"	26'	26'	26'	26'	26'	95%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5810	WRC/Tp	31.7"	22'	22'	22'	22'	22'	95%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5811	WH/Th	13.2"	14'	14'	14'	14'	14'	90%	Minor asymmetry	Average	Regenerating average	Kinked at 18'	NAD	NAD		Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5812	WRC/Tp	17.9"	16'	16'	16'	16'	16'	90%	Generally symmetrical	Dense	Healthy	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5813	WRC/Tp	10.7"	14'	14'	14'	14'	14'	85%	Major asymmetry	Average	Weak	Straight	Exposed	-	Growing out of old nurse stump.	Fair / Viable	Non-Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
						North	South	East	West											
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE					LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5814	WRC/Tp	12.3"	16'	16'	16'	16'	16'	60%	Major asymmetry	Average	Average	Serpentine	Exposed	-	Growing out of old nurse stump.	Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5815	WH/Th	34.4"	26'	26'	26'	26'	26'	65%	Generally symmetrical	Dense	Healthy	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5816	WRC/Tp	14.0"	12'	12'	12'	12'	12'	90%	Generally symmetrical	Average	Average	Bowed	NAD	NAD		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5817	WRC/Tp	23.3"	16'	16'	16'	16'	16'	95%	Minor asymmetry	Average	Average	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5818	WH/Th	17.7"	15'	15'	15'	15'	15'	30%	Minor asymmetry	Average	Average	Straight	NAD	NAD		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5819	WRC/Tp	26.0"	16'	16'	16'	16'	16'	65%	Generally symmetrical	Average	Average	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5820	WRC/Tp	22.2"	15'	15'	15'	15'	15'	60%	Minor asymmetry	Average	Average	Straight	NAD	NAD		Fair / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
						North	South	East	West											
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE					LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5821	WRC/Tp	20.7"	20'	20'	20'	20'	20'	80%	Major asymmetry	Average	Average	Straight	NAD	NAD		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5822	WRC/Tp	25.1"	16'	16'	16'	16'	16'	75%	Major asymmetry	Dense	Average	Slight lean north east	Partially exposed	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5823	WRC/Tp	24.1"	20'	20'	20'	20'	20'	80%	Major asymmetry	Average	Average	Straight	NAD	NAD		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5824	WRC/Tp	29.0" & 7.9"	22'	22'	22'	22'	22'	80%	Major asymmetry	Average	Average	Fork at 3.5' w/ included bark	NAD	-	Slight lean east.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5825	WRC/Tp	25.6"	20'	20'	20'	20'	20'	85%	Major asymmetry	Average	Average	Straight	NAD	NAD		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5825	WRC/Tp	29.1"	20'	20'	20'	20'	20'	85%	Minor asymmetry	Dense	Healthy	Straight	Partially exposed	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5826	WRC/Tp	37.4"	25'	25'	25'	25'	25'	98%	Major asymmetry	Average	Average	Straight	NAD	NAD		Fair / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5826	WRC/Tp	50.6"	26'	26'	26'	26'	26'	80%	Generally symmetrical	Average	Average	Forked at 10' with included bark down to base	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5827	WRC/Tp	51.7"	24'	24'	24'	24'	24'	95%	Generally symmetrical	Dense	Healthy	Forked at 16'	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5828	DF/Pm	54.0"	32'	32'	32'	32'	32'	50%	Generally symmetrical	Dense	Healthy	Bowed	Exposed	NAD	Growing out of nurse stump.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5829	WRC/Tp	27.0"	20'	20'	20'	20'	20'	90%	Generally symmetrical	Dense	Healthy	Straight	Partially exposed	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5830	BLM/Am	47.0"	44'	n/a	n/a	n/a	n/a	40%	Minor asymmetry	Average	Average	Forked at 5.5'	Exposed	NAD	Decay column in the upper trunks. Rot pockets in branch collar wounds. Dead branches in canopy.	Poor / Non-Viable	Significant	Remove for Safety.
Subject Property	North East Property	5831	WRC/Tp	25.3"	10'	10'	10'	10'	10'	85%	Generally symmetrical	Average	Healthy	Straight	Partially exposed	NAD	Growing out of nurse stump.	Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5832	WRC/Tp	45.4"	26'	26'	26'	26'	26'	90%	Minor asymmetry	Average	Average	Straight	NAD	Previous root failure		Fair / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	58333	WRC/Tp	26.2"	18'	n/a	n/a	n/a	n/a	75%	Minor asymmetry	Average	Average	Leans northwest, serpentine	Partially exposed	NAD	Open wound on the south side from the base up 13 feet. Carpenter ant infestation. Woodpecker activity.	Poor / Non-Viable	Significant	Remove for Safety.
Subject Property	North East Property	5836	WRC/Tp	45.7"	26'	26'	26'	26'	26'	90%	Generally symmetrical	Dense	Healthy	Straight	Partially exposed	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5837	WRC/Tp	12.5"	12'	12'	12'	12'	12'	80%	Generally symmetrical	Dense	Healthy	Straight	NAD	NAD		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5838	WRC/Tp	13.6"	13'	13'	13'	13'	13'	65%	Generally symmetrical	Average	Healthy	Straight	NAD	NAD		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5839	WRC/Tp	16.9"	20'	20'	20'	20'	20'	85%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5840	WRC/Tp	35.3"	28'	28'	28'	28'	28'	90%	Generally symmetrical	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5841	WRC/Tp	19.2"	20'	20'	20'	20'	20'	95%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLIAGE	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5842	WRC/Tp	19.3"	22'	22'	22'	22'	22'	95%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5843	WH/Th	18.2"	22'	22'	22'	22'	22'	90%	Minor asymmetry	Dense	Healthy	Slight lean west	Partially exposed	Surface		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5844	WH/Th	17.4"	22'	22'	22'	22'	22'	85%	Major asymmetry	Average	Average	Slight lean north	NAD	NAD	English ivy up 46 feet.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5845	WRC/Tp	23.4 & 21.4"	18'	18'	18'	18'	18'	85%	Generally symmetrical	Average	Healthy	Forked at 7.5'	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5846	WRC/Tp	23.0"	20'	20'	20'	20'	20'	85%	Generally symmetrical	Average	Healthy	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5847	WRC/Tp	20.0"	20'	20'	20'	20'	20'	90%	Generally symmetrical	Average	Healthy	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5847	WRC/Tp	20.1"	22'	22'	22'	22'	22'	80%	Minor asymmetry	Dense	Healthy	Straight	Partially exposed	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5848	RA/Ar	16.9"	28'	n/a	n/a	n/a	n/a	50%	Minor asymmetry	Average	Average	Leans southwest	Exposed	NAD		Poor / Non-Viable	Significant	Remove for Safety.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
						North	South	East	West											
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE					LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5849	WRC/Tp	15.4"	16'	16'	16'	16'	16'	85%	Minor asymmetry	Average	Average	Straight	NAD	NAD		Fair / Viable	Non-Significant	Potential to retain with tree protection measurements.
Subject Property	North East Property	5850	WRC/Tp	23.4"	24'	24'	24'	24'	24'	70%	Generally symmetrical	Average	Average	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measurements.
Subject Property	North East Property	5851	WRC/Tp	13.8"	12'	12'	12'	12'	12'	80%	Generally symmetrical	Thin	Average	Straight	Exposed	NAD		Fair / Viable	Non-Significant	Potential to retain with tree protection measurements.
Subject Property	North East Property	5852	WRC/Tp	35.3"	24'	24'	24'	24'	24'	85%	Generally symmetrical	Average	Average	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measurements.
Subject Property	North East Property	5853	WRC/Tp	12.6"	16'	16'	16'	16'	16'	90%	Major asymmetry	Average	Healthy	Straight	NAD	NAD		Good / Viable	Non-Significant	Potential to retain with tree protection measurements.
Subject Property	North East Property	5854	WRC/Tp	17.6"	18'	18'	18'	18'	18'	90%	minor asymmetry	Dense	Healthy	Straight	NAD	Rot		Very Good / Viable	Significant	Potential to retain with tree protection measurements.
Subject Property	North East Property	5855	WRC/Tp	16.1"	16'	16'	16'	16'	16'	90%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Very Good / Viable	Significant	Potential to retain with tree protection measurements.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5856	WRC/Tp	10.9"	11'	11'	11'	11'	11'	50%	Generally symmetrical	Average	Healthy	Straight	Partially exposed	NAD		Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5857	WRC/Tp	15.4 & 4.1"	15'	15'	15'	15'	15'	90%	Generally symmetrical	Average	Average	Straight	NAD	NAD	Trunk diameters of 15.4 & 4.1 = single trunk of 15.9 inches. Therefore, the tree is <i>Non-Significant</i> .	Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5858	WRC/Tp	16.9"	16'	16'	16'	16'	16'	90%	Minor asymmetry	Dense	Healthy	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5859	WRC/Tp	14.4"	16'	16'	16'	16'	16'	90%	Minor asymmetry	Average	Healthy	Straight	NAD	NAD		Good / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5860	WRC/Tp	36.6"	22'	22'	22'	22'	22'	90%	Minor asymmetry	Average	Healthy	Straight	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5861	WRC/Tp	55.6"	24'	24'	24'	24'	24'	80%	Minor asymmetry	Average	Average	Forked at 11' with included bark down to base	NAD	NAD		Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5862	WRC/Tp	36.2"	26'	26'	26'	26'	26'	65%	Minor asymmetry	Average	Average	Straight	NAD	NAD	Sap sucker activity.	Fair / Viable	Significant	Potential to retain with tree protection measures.

1	2	3	4	5	6	7 -- LIMITS OF DISTURBANCE				8	9	10	11	12	13	14	15	16	17	18
PROPERTY	TREE LOCATION	TREE #	SPECIES	DBH	DRIP LINE	North	South	East	West	LCR	SYMMETRY	FOLiage	CROWN CONDITION	TRUNK	ROOT COLLAR	ROOTS	COMMENTS	CURRENT HEALTH RATING	STATUS	RECOMMENDATION
Subject Property	North East Property	5863	BLM/Am	37.2"	32'	32'	32'	32'	32'	75%	Minor asymmetry	Dense	Healthy	Forked at 18', bowed	NAD	NAD		Good / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5864	WH/Th	8.7"	14'	14'	14'	14'	14'	80%	Major asymmetry	Average	Average	Slight bow	Exposed	NAD		Fair / Viable	Non-Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5865	WRC/Tp	31.6"	22'	n/a	n/a	n/a	n/a	75%	Minor asymmetry	Thin	Weak	Center rot	Base Rot	Rot	Woodpecker activity. Carpenter ant infestation.	Dying / Non-Viable	Significant	Remove for Safety.
Subject Property	South property	5112A	WRC/Tp	35.3"	22'	22'	22'	22'	22'	80%	Major asymmetry	Average	Average	Serpentine	Bowed	-	Base is against 5112 B.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	South property	5112B	WH/Th	18.1"	20'	20'	20'	20'	20'	98%	Major asymmetry	Dense	Healthy	Leans north	Bowed	-	Base is against 5112 A.	Fair / Viable	Significant	Potential to retain with tree protection measures.
Subject Property	North East Property	5615 & 5616	RA/Ar	12.5 & 11.8"	20'	n/a	n/a	n/a	n/a	60%	Minor asymmetry	Average	Average	Forked at 3' w/ included bark down to base	Partially exposed	-	Internal structural weakness.	Poor / Non-Viable	Significant	Remove for Safety.

ATTACHMENT 3 - GLOSSARY

Terms Used in This Report, on the Tree Condition / Inventory Spreadsheet, and Their Significance

In an effort to clearly present the information for each tree in a manner that facilitates the reader's ability to understand the conclusions I have drawn for each tree, I have collected the information in a spreadsheet format. This spreadsheet was developed by Gilles Consulting based upon the *Tree Risk Assessment in Urban Areas and the Urban/Rural Interface* course manual and the *Tree Risk Assessment Form*, both sponsored by the Pacific Northwest Chapter of the International Society of Arboriculture, and the *Hazard Tree Evaluation Form* from the book, *The Evaluation of Hazard Trees in Urban Areas*, by Matheny and Clarke. The descriptions were left brief on the spreadsheet in an effort to include as much pertinent information as possible, to make the report manageable, and to avoid boring the reader with infinite levels of detail. However, a review of these terms and descriptions will allow the reader to rapidly move through the report and understand the information.

- 1) **PROPERTY**—Whether the tree is on or off the Subject Property, or a Right-of-Way tree.
- 2) **TREE LOCATION**—Relative placement of the tree.
- 3) **TREE #**—the unique tag number of each tree.
- 4) **SPECIES**—this describes the species of each tree with both most readily accepted common name and the officially accepted scientific name.
- 5) **DBH**—Diameter Breast Height. This is the standard measurement of trees taken at 4.5 feet above the average ground level of the tree base.
 - i) Occasionally it is not practical to measure a tree at 4.5 feet above the ground. The most representative area of the trunk near 4.5 feet is then measured and noted on the spreadsheet. For instance, a tree that forks at 4.5 feet can have an unusually large swelling at that point. The measurement is taken below the swelling and noted, e.g. '28.4" at 36"'.
 - (1) Every effort is made to distinguish between a single tree with multiple stems and several trees growing close together at the bases.
 - ii) Trees with multiple stems are listed as a "clump of x," with x being the number of trunks in the clump. Measurements may be given as an average of all the trunks, or individual measurements for each trunk may be listed.
- 6) **DRIP LINE**—the radius, the distance from the trunk to the furthest branch tips.
- 7) **LIMITS OF DISTURBANCE**— The boundary between the area of minimum protection around a tree and the allowable site disturbance as determined by a qualified professional. Distances from the center of the trunk were derived on a case by case basis looking at the unique circumstances of each property and each tree on that property.

- 8) **% LCR**—Percentage of Live Crown Ratio. The relative proportion of green crown to overall tree height. This is an important indication of a tree's health. If a tree has a high percentage of Live Crown Ratio, it is likely producing enough photosynthetic activity to support the tree. If a tree has less than 30% to 40% LCR, it can create a shortage of needed energy and can indicate poor health and vigor.
- 9) **SYMMETRY**—is the description of the form of the canopy, i.e., the balance or overall shape of the canopy and crown. This is the place I list any major defects in the canopy shape, e.g. does the tree have all its foliage on one side or in one unusual area? Symmetry can be important if there are additional defects in the tree such as rot pockets, cracks, loose roots, weak crown, etc. Symmetry is generally categorized as Generally Symmetrical, Minor Asymmetry or Major Asymmetry:
- i) **Gen. Sym.**—Generally Symmetrical. The canopy/foliage is generally even on all sides with spacing of scaffold branches typical for the species, both vertically and radially.
 - ii) **Min. Asym.**—Minor Asymmetry. The canopy/foliage has a slightly irregular shape with more weight on one side, but appears to be no problem for the tree.
 - iii) **Maj. Asym.**—Major Asymmetry. The canopy/foliage has a highly irregular shape for the species with the majority of the weight on one side of the tree. This can have a significant impact on the tree's stability, health and hazard potential—especially if other defects are noted such as cracks, rot, or root defects.
- 10) **FOLIAGE/BRANCH**—describes the foliage of the tree in relation to a perfect specimen of that particular species. First the branch growth and foliage density is described, and then any signs or symptoms of stress and/or disease are noted. The condition of the foliage, or the branches and buds for deciduous trees in the dormant season, are important indications of a tree's health and vigor.
- i) For Deciduous trees in the dormant season:
 - (1) The structure of the deciduous tree is visible.
 - (2) The quantity and quality of buds indicates health, and is described as good bud set, average bud set, or poor bud set. These are abbreviated in the spreadsheet as: gbs, abs, or pbs.
 - (3) The amount of annual shoot elongation is visible and is another major indication of tree health and vigor. This is described as:
 - a) Excellent, Good, Average, or Short Shoot Elongation. These are abbreviated in the spreadsheet as ESE, GSE, ASE, or SSE.
 - ii) For evergreen trees year round and deciduous trees in leaf, the color and density of the foliage indicates if the tree is healthy or stressed, or if an insect infestation, a bacterial, fungal, or viral infection is present. Foliage is categorized on a scale from:
 - (1) **Dense**—extremely thick foliage, an indication of healthy vigorous growth,
 - (2) **Good**—thick foliage, thicker than average for the species,

- (3) Normal/Average—thick foliage, average for the species, an indication of healthy growth,
 - (4) Thin or Thinning—needles and leaves becoming less dense so that sunlight readily passes through; an indication that the tree is under serious stress that could impact the long-term survivability and safety of the tree,
 - (5) Sparse—few leaves or needles on the twigs, an indication that the tree is under extreme stress and could indicate the future death of the tree,
 - (6) Necrosis—the presence of dead twigs and branchlets. This is another significant indication of tree health. A few dead twigs and branches are reasonably typical in most trees of size. However, if there are dead twigs and branchlets all over a certain portion of the tree, or all over the tree, these are indications of stress or attack that can have an impact on the tree's long-term health.
 - (7) Hangers—a term to describe a large branch or limb that has broken off but is still hanging up in the tree. These can be particularly dangerous in adverse weather conditions.
- 11) **CROWN CONDITION**—the crown is uppermost portion of the tree, generally considered the top 10 to 20% of the canopy or that part of the canopy above the main trunk in deciduous trees and above the secondary bark in evergreen trees.
- i) The condition of the tree's crown is a reflection of the overall health and vigor of the entire tree. The crown is one of the first places a tree will demonstrate stress and pathogenic attack such as root rot.
 - ii) If the **Crown Condition** is healthy and strong, this is a good sign. If the crown condition is weak, broken out, or shows other signs of decline, it is an indication that the tree is under stress. It is such an important indication of health and vigor that this is the first place a trained forester or arborist looks to begin the evaluation of a tree. Current research reveals that, by the time trees with root rot show significant signs of decline in the crown, fully 50% or more of the roots have already rotted away. **Crown Condition** can be described as:
 - (1) Healthy Crown—exceptional growth for the species.
 - (2) Average Crown—typical for the species.
 - (3) Weak Crown—thin spindly growth with thin or sparse needles.
 - (4) Flagging Crown—describes a tree crown that is weak and unable to grow straight up.
 - (5) Dying Crown—describes obvious decline that is nearing death.
 - (6) Dead Crown—the crown has died due to pathological or physical injury. The tree is considered to have significant stress and/or weakness if the crown is dead.
 - (7) Broken out—a formerly weak crown condition that has been broken off by adverse weather conditions or other mechanical means.

- (8) Regenerated or Regenerating—formerly broken out crowns that are now growing back. Regenerating crowns may appear healthy, average, or weak and indicate current health of the tree.
- (9) Suppressed—a term used to describe poor condition of an entire tree or just the crown. Suppressed crowns are those that are entirely below the general level of the canopy of surrounding trees which receive no direct sunlight. They are generally in poor health and vigor. Suppressed trees are generally trees that are smaller and growing in the shade of larger trees around them. They generally have thin or sparse needles, weak or missing crowns, and are prone to insect attack as well as bacterial and fungal infections.
- 12) **TRUNK**—this is the area to note any defects that can have an impact on the tree’s stability or hazard potential. Typical things noted are:
- i) FORKED—bifurcation of branches or trunks that often occur at a narrow angle.
 - ii) INCLUDED BARK—a pattern of development at branch or trunk junctions where bark is turned inward rather than pushed out. This can be a serious structural defect in a tree that can and often does lead to failure of one or more of the branches or trunks, especially during severe, adverse weather conditions.
 - iii) EPICORMIC GROWTH—this is generally seen as dense thick growth near the trunk of a tree. Although this looks like a healthy condition, it is, in fact the opposite. Trees with Epicormic Growth have used their reserve stores of energy in a last ditch effort to produce enough additional photosynthetic surface area to produce more sugars, starches and carbohydrates to support the continued growth of the tree. Generally speaking, when conifers in the Pacific Northwest exhibit heavy amounts of Epicormic Growth, they are not producing enough food to support their current mass and are already in serious decline.
 - iv) INTERNAL STRUCTURAL WEAKNESS—a physical characteristic of the tree trunk, such as a **kink, crack, rot pocket, or rot column** that predisposes the tree trunk to failure at the point of greatest weakness.
 - v) BOWED—a gradual curve of the trunk. This can indicate an Internal Structural Weakness or an overall weak tree. It can also indicate slow movement of soils or historic damage of the tree that has been corrected by the curved growth.
 - vi) KINKED—a sharp angle in the tree trunk that indicates that the normal growth pattern is disrupted. Generally this means that the internal fibers and annual rings are weaker than straight trunks and prone to failure, especially in adverse weather conditions.
 - vii) GROUND FLOWER—an area of deformed bark near the base of a tree trunk that indicates long-term root rot.

- 13) **ROOT COLLAR**—this is the area where the trunk enters the soil and the buttress roots flare out away from the trunk into the soil. It is here that signs of rot, decay, insect infestation, or fungal or bacterial infection are noted. **NAD** stands for **No Apparent Defects**.
- 14) **ROOTS**—any abnormalities such as girdling roots, roots that wrap around the tree itself that strangle the cambium layer and kill the tree, are noted here.
- 15) **COMMENTS**—this is the area to note any additional information that would not fit in the previous boxes or attributes about the tree that have bearing on the health and structure of the tree.
- 16) **CURRENT HEALTH RATING**—A description of the tree’s general health ranging from dead, dying, poor, senescent, suppressed, fair, good, very good, to excellent.
- 17) **RECOMMENDATION**— this is an estimate of whether or not the tree is of sufficient health, vigor, and structure that it is worth retaining. Specific recommendations for each tree are included in this column. They may include anything from pruning dead wood, mulching, aerating, injecting tree-based fertilizer into the root system, shortening into a habitat tree or wildlife snag, or to completely removing the tree.
 - i) **Consider Removal:** Means that the tree is healthy and structurally sound now but will not likely be safe in the future—especially after the stresses of construction. These trees should be retained strictly as a last resort.
 - ii) **Potential to retain with tree protection measures:** means that the tree appears to have the internal resources, the health and vigor, structural stability, and the wind firmness to be able to withstand the stresses of construction if development requirements and construction requirements allow.
 - iii) **Remove for Safety:** means that the tree has a high potential to fail and cause either personal injury or property damage—in other words the tree has been declared a hazard tree and should be dealt with.

NOTE: TREES WITH THE SAME DESCRIPTION AND DIFFERENT RATINGS:
Two trees may have the same descriptions in the matrix boxes, one may be marked “Significant,” while another may be marked “Non-Significant.” The difference is in the degree of the description, i.e., “early necrosis” versus “advanced necrosis” for instance. Another example is “center rot” or “base rot”. In a Western Red Cedar tree, the presence of low or even moderate rot is not significant and does not diminish the strength of the tree. However, low levels of rot in the base of a Douglas Fir tree, in an area known to have virulent pathogens present, is highly significant and predisposes that tree to windthrow.

ATTACHMENT 4 - TREE PROTECTION MEASURES

In order for trees to survive the stresses placed upon them in the construction process, tree protection must be planned in advance of equipment arrival on site. If tree protection is not planned integral with the design and layout of the project, the trees will suffer needlessly and will possibly die. With proper preparation, often costing little, or nothing extra to the project budget, trees can survive and thrive after construction. This is critical for tree survival because damage prevention is the single most effective treatment for trees on construction sites. Once trees are damaged, the treatment options available are limited.

The following minimum Tree Protection Measures are included on three separate sheets so that they can be copied and introduced into all relevant documents such as site plans, permit applications and conditions of approval, and bid documents so that everyone involved is aware of the requirements. These Tree Protection Measures are intended to be generic in nature. They will need to be adjusted to the specific circumstances of your site that takes into account the location of improvements and the locations of the trees.

TREE PROTECTION MEASURES:

1. Tree Protection Fences will need to be placed around each tree or group of trees to be retained.
 - a. Tree Protection Fences are to be placed according to the attached drawing at a distance of not less than 5 feet outside the dripline of the tree or group of trees to be saved.
 - b. Tree Protection Fences must be inspected prior to the beginning of any demolition or construction work activities.
 - c. Nothing must be parked or stored within the Tree Protection Fences—no equipment, vehicles, soil, debris, or construction supplies of any sorts.
2. Cement trucks must not be allowed to deposit waste or wash out materials from their trucks within the Tree Protection Fences.
3. The Tree Protection Fences need to be clearly marked with the following or similar text in four inch or larger letters:

“TREE PROTECTION FENCE

DO NOT ENTER THIS AREA

DO NOT PARK OR STORE MATERIALS

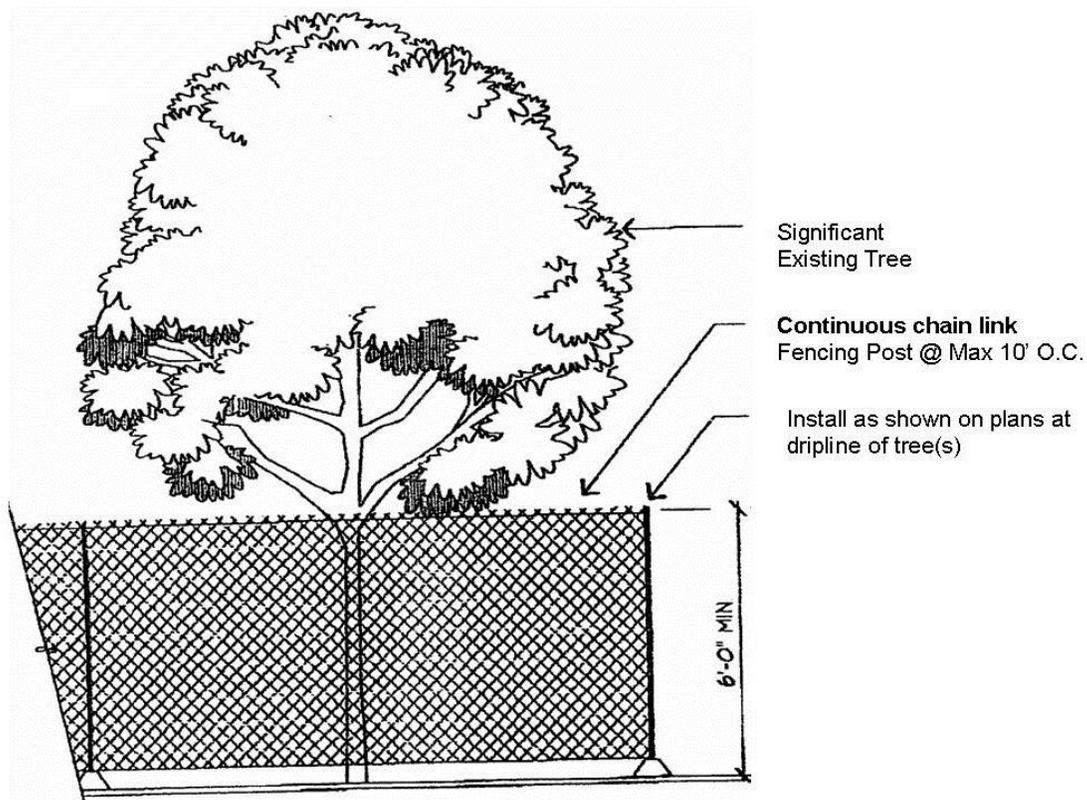
WITHIN THE PROTECTION AREA

Any questions or concerns call the Duvall Planning Dept.

@ 425-788-2779”

4. The area within the Tree Protection Fencing must be covered with wood chips, hog fuel, or similar materials to a depth of 8 to 10 inches. The materials should be placed prior to beginning construction and remain until the Tree Protection Fencing is taken down.
5. When excavation occurs near trees that are scheduled for retention, the following procedure must be followed to protect the long term survivability of the tree:
 - a. An International Society of Arboriculture, (ISA) Certified Arborist must be working with all equipment operators.
 - i. The Certified Arborist should be outfitted with a shovel, hand pruners, a pair of loppers, a handsaw, and a power saw (a “sawsall” is recommended).
 - b. The hoe must be placed to “comb” the material directly away from the trunk as opposed to cutting across the roots.
 - i. Combing is the gradual excavation of the ground cover plants and soil in depths that only extend as deep as the tines of the hoe.

- c. When any roots of one inch diameter or greater, of the tree to be retained, is struck by the equipment, the Certified Arborist should stop the equipment operator.
 - d. The Certified Arborist should then excavate around the tree root by hand/shovel and cleanly cut the tree root.
 - i. The Certified Arborist should then instruct the equipment operator to continue.
6. Putting Utilities Under the Root Zone:
- a. Boring under the root systems of trees (and other vegetation) shall be done under the supervision of an ISA Certified Arborist. This is to be accomplished by excavating a limited trench or pit on each side of the critical root zone of the tree and then hand digging or pushing the pipe through the soil under the tree. The closest pit walls shall be a minimum of 7 feet from the center of the tree and shall be sufficient depth to lay the pipe at the grade as shown on the plan and profile.
 - b. Tunneling under the roots of trees shall be done under the supervision of an ISA Certified Arborist in an open trench by carefully excavating and hand digging around areas where large roots are exposed. No roots 1 inch in diameter or larger shall be cut.
 - c. The contractor shall verify the vertical and horizontal location of existing utilities to avoid conflicts and maintain minimum clearances; adjustment shall be made to the grade of the new utility as required.
7. Watering:
- a. Some of the trees will require significant watering throughout the summer and early fall in order to survive long-term. An easy and economical watering can be done using soaker hoses placed three feet from the trunk of the tree and spiraled around the tree(s). One 75-foot soaker hose per tree is adequate. It is best to place the soakers using landscape staples, (available from HD Fowler in Bellevue for pennies apiece) then cover the area with two to three inches composted materials. The composted material will act as a mulch to minimize evaporation and will also stimulate the microbial activity of the soil which is another benefit to the health of the tree.
 - b. Water the tree to a depth of 18 to 20 inches. I recommended leaving the water on the soaker hoses for six to eight hours and then digging down to determine how deep your water is penetrating. Then adjust accordingly. It may take a good two days of watering to reach the proper depth.
 - c. Once the water reaches the proper depth, turn off the hoses for four weeks and then water again. Water more often when temperatures increase— every three weeks when temperatures exceed 80 degrees and every two weeks when temperatures exceed 90 degrees. This drying out of the soil in between watering is important to prevent soil pathogens from attacking the trees.



Six-foot high temporary chain link fence shall be placed as shown on plans. Fence shall completely encircle tree(s). Install fence posts using pier blocks only. Avoid driving posts or stakes into major roots.

Make a clean straight cut to remove damaged portion of root for all roots over 1" in diameter damaged during construction. **All** exposed roots shall be temporarily covered with damp burlap and covered with soils the same day, if possible, to prevent drying. If not possible, burlap must be kept moist at all times.

Work with the protection fencing shall be done manually. No stockpiling of materials, soil, debris, vehicle traffic, or storage of equipment or machinery shall be allowed within the limit of the fencing.

Cement trucks must not be allowed to deposit waste or wash out materials from their trucks within the Tree Protection Fences.

The area within the Tree Protection Fencing must be covered with wood chips, hog fuel, or similar materials to a depth of 8 to 10 inches. The materials should be placed prior to beginning construction and remain until the Tree Protection Fencing is taken down.

ATTACHMENT 5 - REFERENCES

1. Dirr, Michael A. *Manual of Woody Landscape Plants, Their Identification, Ornamental Characteristics, Culture, Propagation, and Uses*. Champaign: Stipes Publishing Company, 1990.
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