February 7, 2019

Erik Enstrom Bonnie Geers Manager Land Development Quadrant Homes 14725 SE 36th Suite 200 Bellevue, WA 98006

Site: Willows Northwest I, LLC Parcel number: 272605-9026 15.4 acre

Dear Erik and Bonnie:

Thank you for requesting my services. On August 15th, 2016, I was contacted by Corey Watson and asked to perform a Visual Tree Assessment (VTA) for all Significant* and Landmark* trees growing on the 15.4-acre site located on the corner of Willows Road and NE 124th St. The information gathered and included in this report is a necessary part of the City of Redmond's requirement for a Tree Preservation Plan to be included in the submittal for proposed site development.

During the weeks between August 22, 2016 and September 10th, 2016, we spent seven (7) days on the property measuring the diameter of each tree at breast height (DBH), the dripline, and assessing the health of the 710 trees. Every effort was made to be as thorough as possible on the unmaintained site, which includes critical slope and wetlands areas.

In summary:

Updated Tree Density Calculation	
Total number of trees onsite	710
Total number of significant trees	294
Required 35% Tree retention	103
Total number of retained trees proposed	132
Number of trees over requirement	29

I have included a detailed report of my findings, if you have any questions please contact me. I can be reached on my cell phone: 425.890.3808 or by email: <u>sprince202@aol.com</u>.

Warm regards,

Sugar R.

Susan Prince Creative Landscape Solutions ISA Certified Arborist #1481 TRAQ Certified Arborist #481 Landscape Designer 425.890.3808

*Significant tree is any tree with a DBH between 6"-29"; a Landmark tree is any tree with a DBH>30"

Assignment:

To assess all significant and landmark trees on site and to prepare a Tree Preservation Plan to be included with the proposed plat improvements.

Personal qualifications, scope of work and methodology:

To evaluate the trees and prepare the report, I drew on my formal college education in botany and the preparation and training used to obtain my ISA certification. In addition to my education and certification, I relied heavily on my training to obtain my certification as a Tree Risk Assessor. I have worked in the field of arboriculture since 1995, have been ISA Certified since 1999, and have been TRACE/TRAQ certified since 2009.

I followed protocol delineated by the International Society of Arboriculture (ISA) for Visual Risk Assessment (VRA). By doing so, I am examining each tree independently as well as collectively as groups or stands of trees provide stability and can lower risk of independent tree failure. This scientific process examines tree health (e.g. size, vigor, and insect and disease process) as well as site conditions (soil moisture and composition, amount of impervious surfaces surrounding the tree etc.)

Introduction:

Identifying and managing the risks associated with trees is still largely a subjective process. Since the exact nature of tree failures remains largely unknown, our ability as scientists and arborists to predict which trees will fail and in what fashion remains limited. As currently practiced, the science of hazard tree evaluation involves examining a tree for structural defects, including genetic problems, those caused by the local environmental that the tree grows in and those attributed to man (pruning etc.).

The assessment process involves evaluating three components: 1) a tree with the potential to fail, 2) an environment that may contribute to that failure, and 3) a person or object that would be injured or damaged (the target). A defective tree cannot be considered hazardous without the presence of a target.

All trees have a finite life-span though it is not pre-programmed internally in the same manner as annual plantings. As trees age, they are less able to compartmentalize structural damage following injury from insects, disease or pruning. Trees in urban settings have a shorter life span than trees grown in an undisturbed habitat.

Different species of trees grow differently. Evergreen trees have a "reputation" of growing slowly and defensively. These trees allocate a high proportion of their resources to defending themselves from pathogens, parasites and wounds. As a rule, trees with this type of growth tend to be long lived. Though like all other living things, they have a predictable life span. Examples of this type of tree include the northwest Pseudotsuga menziesii - Douglas fir, and Thuja plicata - Western red cedar.

Deciduous trees are trees that annually shed leaves or needles. These trees tend to grow quickly and try to "outgrow" problems associated with insects, disease and wounds. They allocate a relatively small portion of their internal resources to defense and rely instead upon an ability to grow more quickly than the pathogens which infect them. However, as these trees age, their growth rate declines and the normal problems associated with decay begins to catch up and compromise the tree's structural integrity. Examples of this type of tree include Salix, Populus and Alnus. Knowledge of the growth and failure patterns of individual tree species is critical to effective hazard analysis. Species vary widely in their rates of failure. The current tree risk evaluation rating system accepted as the standard by the ISA was developed by the ISA in conjunction with Julian Dunster³ and recognizes this variation in species failure and includes a species component as part of the overall risk evaluation.

Site Observations:

Site is located on the corner of Willows road and NE 124th Street in Redmond, WA. The fifteen-acre site appears to have been previously used as a farm, with much of the land cleared of vegetation. It has a varied terrain and slopes west to east and north to south. The land has been previously cleared and appears to have once included pasture areas. The south side of the lot is comprised of a steep ravine with a small creek at the bottom.

Currently the vegetation on the property includes fruit trees and pioneer species of timber, primarily cottonwood and red alder, bitter cherry, Hawthorne, Cascara on the north, west and east sides of the site. The southern perimeter has larger diameter species and more climax species (Bigleaf maples, Douglas firs, Western red cedar's and Hemlock.)

Offsite trees Potentially Impacted by Development:

None

Method's used to determine tree location and tree health:

Trees were identified previously by numbered aluminum tags attached to the western side of the tree. All the trees on site were examined using the Matheny and Clark¹ criteria for determining the potential hazard of trees in an urban environment as well as the Tree Risk Assessment in Urban Areas and The Urban/Rural Interface by Julian Dunster². Tree diameters were measured using a logger's tape, and tree driplines were measured by a Nikon Forestry PRO Laser RangefinderTM.

BBREVIATED LEGEND- SEE REPORT FOR GREATER DETAIL

- 1. Numerical ordering
- 2. Tree tag #: numbered aluminum tags attached to the trees in the field
- 3. Tree species ID: common and botanical names
 - Apple: Malus sp.
 - American sycamore: Plantanus occidentalis
 - Austrian pine: Pinus nigra
 - Bigleaf maple: Acer macrophyllum
 - Birch: Betula nigra
 - Bitter Cherry: Prunus emarginata
 - Blue atlas cedar: *Cedrus atlantica* '*Glauca'*
 - Cedar: Thuja plicata
 - Cherry: Prunus sp.
 - Dawn redwood: *Chamaecyparis* nootkatensis
 - Deodora cedar: Cedrus deodara
 - Colorado blue spruce: *Picea pungens*
 - Cottonwood: Populus deltoides
 - Dogwood: Cornus nuttallii
 - Douglas fir: Pseudotsuga menziesii
 - English laurel: *Prunus laurocerasus*
 - Filbert: Corylus avellana var.
 - Grand fir: Abies grandis
 - Hemlock: Tsuga hetrophylla
 - Holly: Ilex aquifolium
 - Japanese maple: Acer palmatum
 - Leylandii cypress: Cupressocyparis leylandii
 - Lodgepole pine: Pinus contorta
 - Mountain ash: Sorbus americana
 - Mountain hemlock: *Tsuga mertensiana*
 - Pear: Pyrus sp.
 - Plum: Prunus
 - Red Alder: Alnus rubra
 - Red maple: Acer rubrum
 - Walnut: Juglans sp.
 - Western red cedar: *Thuja plicata*
 - Weeping Alaska cedar: Metasequoia glyptostrobides
 - White pine: *Pinus strobus*

- 4. DBH: diameter of the tree measured in inches at 4' above grade
- 5. Adj. DBH: multiple trunk tree DBH in inches calculated per municipality directives
- 6. Dripline Radius: measurement in feet of the tree canopy from tree trunk to outermost branch tip via laser rangefinder
- 7. Health: a measurement of overall tree vigor and vitality rated as excellent, good, OK, fair or poor based on an assessment of crown density, leaf color and size, active callusing, shoot growth rate, extent of crown dieback, cambium layer health, and tree age
 - Excellent: Tree is an ideal specimen for the species with no obvious flaws
 - Good: Tree may have some minimal structural or situational defects
 - OK: The tree may have an average amount of structural issues, and/or some insect or disease issues, and/or some environmental issues, however, considering the species, the trees will withstand the stress of construction and/or the change in environmental conditions without an increased risk of failure
 - Fair: Tree has structural or health issues that predispose it to failure if further stressed, this tree may be unsuitable for retention as a single tree, however depending on the species, it may be suitable for retention if it is retained within a grove
 - Poor: Tree has significant structural and/or health issues. It is dead or dying and is generally exempt from total tree count
- 8. Defects/Concerns: a measure of the tree's structural stability and failure potential based on assessment of specific structural features, e.g., decay, conks, co-dominant trunks, included bark, abnormal lean, one-sided canopy, history of failure, prior construction impact, pruning history, etc.
- 9. Proposed action:
 - Retain
 - Impacted
 - Remove due to viability
 - Remove due to planned development (tree is otherwise healthy)
- 10. Limits of disturbance/Tree protection zone: the area surrounding the tree that defines the area that surrounds the trunk that cannot be encroached upon during construction. This may be a multiple of the trunk diameter (1 -1.5 times the trunk diameter converted to feet) or it may be related to the width of the canopy. It is always determined by tree species and environment and is up to the discretion of the ISA Certified Arborist to determine
- 11. Measure of tree "value" may be determined by municipality formula or a direct measure of the trunk diameter to determine significance, for City of Redmond the value is determined by size; LM=Landmark is any healthy tree with a DBH greater than 30", S=Significant: any healthy tree whose DBH is 6"-29.9", N=Non-significant: any tree that is unhealthy regardless of size
- 12. Photos: If photos are provided they are identified by number here

¹ Matheny, N., and Clark, J. 1994. *Evaluation of Hazard Trees in Urban Areas*. 2nd Edition. Champaign, Illinois: International Society of Arboriculture.

Assessment Manual. Champaign, Illinois: International Society of Arboriculture, 2013.

² Dunster, J.A. 2009. *Tree Risk Assessment in Urban Areas and the Urban/Rural Interface*: Course Manual. Silverton, Oregon: Pacific Northwest Chapter, International Society of Arboriculture.

³ Dunster, Julian A., E. Thomas Smiley, Nelda Matheny and Sharon Lilly. <u>Tree Risk</u>



Willows Road

North

Percentage of species present:

Species		Number	%
Bigleaf maple	Acer macrophyllum	175	25%
Red alder	Alnus rubra	176	25%
Cottonwood	Populus deltoides	113	16%
Hawthorne	Crataegus	52	7%
Bitter cherry	Prunus emarginata	43	6%
Douglas fir	Pseudotsuga menziesii	39	5%
Western red cedar	Thuja plicata	27	4%
Cascara	Rhamnus purshiana	18	3%
Hemlock	Tsuga hetrophylla	18	3%
Grand Fir	Abies grandis	16	2%
Black locust	Robinia pseudoacacia	12	2%
Ash	Sorbus americana	6	1%
Apple	Prunus	5	1%
Lodge pole pine	Pinus contorta	4	1%
Fruiting pear	Prunus	3	0%
White pine	Pinus strobus	2	0%
Holly	Ilex aquifolium	1	0%

Onsite Tree Observations:

1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Retain Buffer	Impacted	Non- viable	Remove for a improvements	N	Radiu: E	s in ft S	w	LM=Landmark S=Significant N=Non- significant
1	1	Douglas fir	9	9	16	Poor	Multiple wounds @ 3' to 6' on north, heaved soil, self- corrected lean				1		16	16	16	16	Ν
2	2	Douglas fir	13	13	10	ОК	Typical of species, small crack with sap @ 4' west, thin canopy, stress coning, exposed roots					1	10	10	10	10	S
3	3	Douglas fir	12	12	12	Fair	Exposed roots, dead wood, broken branches, typical of species, dead twigs				1		12	12	12	12	Ν
4	4	Douglas fir	20	20	16	ОК	Exposed roots, free flowing sap					1	16	16	16	16	S
5	5	Cascara	7, 8, 8, 9, 8, 13, 14, 12, 11, 11	33	24	Fair	Co-dominant leaders with included bark x10 @ root crown, typical of species, multiple wounds @ root crown up to 3', woodpecker activity, dead wood				1		24	24	24	24	N
6	15	Cotton- wood	16, 17	23.5	16	Fair	Co-dominant leaders with included bark x2 @ root crown, moss and lichen, vertical crack, typical of species				1		16	16	16	16	N
7	17	Cotton- wood	11	11	14	ОК	Typical of species, asymmetric canopy to south					1	14	14	14	14	S
8	18	Cotton- wood	14	14	16	Fair	Typical of species, moss and lichen, exposed roots, sway to south, asymmetric canopy to south				1		16	16	16	16	N
9	19	Cotton- wood	11	11	10	Fair	Sway to south, asymmetric canopy to south, typical of species				1		10	10	10	10	N
10	20	Cotton- wood	12	12	20	Fair	Sway to south, asymmetric canopy to south				1		20	20	20	20	Ν

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed /	Action				D/CR		on-
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Retain Buffer	Impacted	Non- viable	Remove for a improvements	N	Radius E	s in ft S	w	LM=Landmark =Significant N=Non- significant
11	21	Cotton- wood	19	19	16	ОК	Exposed roots, typical of species					. <u>=</u> 1	16	16	16	16	s S
12	22	Cotton- wood	9	9	19	Fair	Sway to south, moss and lichen				1		19	19	19	19	Ν
13	23	Cotton- wood	11	11	17	Fair	Typical of species, asymmetric canopy to south, wound @ 6' on south, OK in grove				1		17	17	17	17	N
14	24	Cotton- wood	10	10	13	Fair	Moss and lichen, typical of species, asymmetric canopy to south				1		13	13	13	13	N
15	25	Cotton- wood	13	13	10	Fair	Dead wood, broken branches, moss and lichen, lean to south				1		10	10	10	10	N
16	26	Cotton- wood	12	12	6	Fair	Dead wood, broken branches, moss and lichen, exposed roots, lean to south				1		6	6	6	6	Ν
17	27	Cotton- wood	13	13	6	Fair	Moss and lichen, exposed roots, lean to south				1		6	6	6	6	Ν
18	28	Cotton- wood	14	14	7	ОК	Low live crown ratio less than 15%, moss and lichen					1	7	7	7	7	S
19	29	Cotton- wood	18	18	0	Poor	Dead				1		0	0	0	0	Ν
20	30	Cotton- wood	12	12	0	Poor	Dead				1		0	0	0	0	Ν
21	31	Cotton- wood	8	8	4	Poor	Mostly dead				1		4	4	4	4	N
22	32	Cotton- wood	18	18	6	Poor	Co-dominant leaders with included bark x2 @ 6', previous top loss				1		6	6	6	6	N
23	33	Cotton- wood	17	17	6	Poor	Mostly dead				1		6	6	6	6	Ν
24	34	Cotton- wood	12	12	8	Poor	Mostly dead				1		8	8	8	8	Ν

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radiu	s in ft		t ark
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non- significant
25	35	Cotton- wood	12	12	0	Poor	Dead				1		0	0	0	0	Ν
26	36	Cotton- wood	9	9	10	Fair	Co-dominant leaders with included bark x2 @ root crown @ 1', asymmetric canopy to east, OK in grove				1		10	10	10	10	N
27	37	Cotton- wood	11	11	6	Fair	Calloused wound @ 1' on east, suppressed canopy, moss and lichen, OK in grove				1		6	6	6	6	Ν
28	38	Cotton- wood	8	8	9	ок	Suppressed canopy, asymmetric canopy to east, typical of species, OK in grove					1	9	9	9	9	S
29	39	Cotton- wood	13	13	11	Fair	Dead spur @ 3' on north, asymmetric canopy to east, OK in grove				1		11	11	11	11	Ν
30	40	Ash	14	14	12	ОК	Moss and lichen, asymmetric canopy to east, typical of species, OK in grove					1	12	12	12	12	S
31	41	Cotton- wood	10	10	9	Poor	Wound with decay @ 3' to 5' on west				1		9	9	9	9	Ν
32	42	Cotton- wood	10	10	9	Poor	Crack @ 6' on south, sap, moss and lichen, wounds @ 3' to 5' on west				1		9	9	9	9	Ν
33	43	Cotton- wood	12	12	6	Fair	Wound with decay @ 3' on east, typical of species, OK in grove				1		6	6	6	6	N
34	44	Cotton- wood	12	12	6	Fair	Moss and lichen, exposed roots, previous top loss, OK in grove				1		6	6	6	6	N
35	45	Cotton- wood	10	10	6	Fair	Exposed roots, crack @ 6' on south, typical of species, OK in grove				1		6	6	6	6	N

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radius	s in ft		ar ∠ Z
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non-
36	46	Ash	9, 4, 6, 4, 6, 9	16.5	15	Fair	Co-dominant leaders with included bark x6 @ root crown, dead wood, broken branches, twisted trunks, previous top loss, OK in grove				1		15	15	15	15	N
37	47	Ash	9, 10, 4, 6	15.5	17	Fair	Co-dominant leaders with included bark x4 @ root crown, twisted trunks, dead wood, broken branches, OK in grove				1		17	17	17	17	N
38	48	Ash	10, 10, 8, 9	18.5	14	ОК	Co-dominant leaders with included bark x4 @ root crown, moss and lichen, typical of species, dead wood, broken branches					1	14	14	14	14	S
39	49	Ash	10, 6, 10, 9, 12, 7	22.5	14	ОК	Co-dominant leaders with included bark x6 @ root crown, typical of species					1	14	14	14	14	S
40	50	Ash	10, 9, 12, 4, 4, 5	19.5	15	Fair	Co-dominant leaders with included bark x6 @ root crown, decay @ root crown, dead wood, broken branches, hanger				1		15	15	15	15	N
41	51	Cotton- wood	38	38	20	Poor	Moss and lichen, dead wood, broken branches, dead scaffold, poor pruning with decay				1		20	20	20	20	N
42	52	Cotton- wood	14	14	9	Fair	Moss and lichen, typical of species, exposed roots, OK in grove				1		9	9	9	9	Ν
43	53	Cotton- wood	9	9	6	Fair	Moss and lichen, previous top loss, typical of species				1		6	6	6	6	Ν
44	54	Cotton- wood	8	8	6	Poor	Failing to west				1		6	6	6	6	Ν

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radius	s in ft		t ≣ ark
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Ν	E	S	W	LM=Landmark S=Significant N=Non-
45	55	Cotton- wood	20	20	10	Fair	Dead wood, broken branches, low live crown ratio less than 15%, moss and lichen				1		10	10	10	10	Ν
46	56	Cotton- wood	13	13	16	Fair	Vertical crack on south, exposed roots, self-corrected lean, dead wood				1		16	16	16	16	Ν
47	57	Cotton- wood	53	53	24	Poor	Co-dominant leaders with included bark x2 @ 6', previous top loss, decay throughout				1		24	24	24	24	N
48	58	Cotton- wood	8	8	8	Poor	Failing to west				1		8	8	8	8	Ν
49	59	Cotton- wood	18	18	16	Fair	Previous top loss, lean to west, moss and lichen				1		16	16	16	16	Ν
50	60	Cotton- wood	17	17	21	ОК	Typical of species					1	21	21	21	21	S
51	61	Cotton- wood	18	18	18	ОК	Moss and lichen, lean to north					1	18	18	18	18	S
52	62	Cotton- wood	8	8	16	Fair	Moss and lichen, previous top loss, suppressed canopy				1		16	16	16	16	Ν
53	63	Cotton- wood	12	12	14	Fair	Moss and lichen, previous top loss, suppressed canopy				1		14	14	14	14	Ν
54	64	Red alder	9, 3, 2, 2	10	10	Fair	Co-dominant leaders with included bark x4 @ root crown, previously topped, damage @ root crown				1		10	10	10	10	N
55	65	Bigleaf maple	9	9	10	ОК	Typical of species					1	10	10	10	10	S
56	66	Cotton- wood	21	21	10	Poor	moss and lichen, exposed roots, asymmetric canopy west				1		10	10	10	10	Ν

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radiu	s in ft		ark ≥
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	Е	S	W	LM=Landmark S=Significant N=Non- significant
57	67	Cotton- wood	20	20	16	Fair	growing at top of slope, asymmetric canopy west, slight lean west, dead wood, dead scaffold, OK in grove				1		16	16	16	16	N
58	68	Bigleaf maple	20	20	24	Fair	Bacterial flux @ root crown north, decay @ root crown, exposed roots				1		24	24	24	24	Ν
59	69	Red alder	9	9	11	OK	Typical of species					1	11	11	11	11	S
60	70	Red alder	11	11	15	ОК	Typical of species, moss and lichen					1	15	15	15	15	S
61	71	Haw-thorne	15	15	12	Good	Typical of species, moss and lichen					1	12	12	12	12	S
62	72	Haw-thorne	11	11	16	ОК	Asymmetric canopy to north, moss and lichen, typical of species					1	16	16	16	16	S
63	73	Haw-thorne	6, 9, 7	13	12	Poor	Co-dominant leaders with included bark x3 @ root crown, failing to north, moss and lichen				1		12	12	12	12	N
64	74	Haw-thorne	8	8	14	Fair	Typical of species, self- corrected lean-to west, moss and lichen, column of decay @ root crown up to 6'				1		14	14	14	14	N
65	75	Apple	31	31	18	Poor	Typical of species, cavity on north, carpenter ants, woodpecker activity, ivy @ root crown up to 30', blackberries at root crown up to 30', moss and lichen				1		18	18	18	18	N
66	76	Apple	16, 14	21	28	Poor	Co-dominant leaders with included bark x2 @ 3', mostly dead				1		28	28	28	28	Ν

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed .	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radius	s in ft.		Ϋ́Ξ
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non- significant
67	77	Bigleaf maple	9, 11, 16, 15, 12, 15, 16, 17, 15	42.5	38	Fair	Co-dominant leaders with included bark x9 @ root crown, dead trunks, dead scaffolds, cavity				1		38	38	38	38	N
68	86	Haw-thorne	20	20	18	Poor	Mostly dead				1		18	18	18	18	Ν
69	87	Bigleaf maple	60	60	28	Good	Multi-stem, typical of species					1	28	28	28	28	LM
70	88	Alder	8	8	12	OK	Typical of species					1	12	12	12	12	S
71	89	Alder	8	8	14	OK	Typical of species					1	14	14	14	14	S
72	90	Cotton- wood	9	9	6	ОК	Typical of species, moss and lichen					1	6	6	6	6	S
73	91	Cotton- wood	11	11	7	ОК	Moss and lichen, typical of species					1	7	7	7	7	S
74	92	Cotton- wood	12, 9	15	9	Fair	Co-dominant leaders with included bark x2 @ root crown, undermined roots, dead wood				1		9	9	9	9	N
75	93	Cotton- wood	8	8	6	ОК	Self-corrected lean to east, typical of species					1	6	6	6	6	S
76	94	Cotton- wood	9	9	7	ОК	Typical of species, moss and lichen					1	7	7	7	7	S
77	95	Haw-thorne	7, 11, 7, 14, 9	22.5	19	ОК	Co-dominant leaders with included bark x5 @ root crown, typical of species, moss and lichen					1	19	19	19	19	S
78	96	Cotton- wood	11	11	10	Poor	Co-dominant leaders with included bark x2 @ 8', split crotch to 7'				1		10	10	10	10	Ν
79	97	Cotton- wood	11	11	9	ОК	Typical of species, moss and lichen					1	9	9	9	9	S

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radius	s in ft		jar ara ara
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Ν	ш	S	W	LM=Landmark S=Significant N=Non- significant
80	98	Cotton- wood	8	8	6	ок	Typical of species, moss and lichen					1	6	6	6	6	S
81	99	Cotton- wood	6	6	5	ОК	Moss and lichen, self- corrected lean to south, typical of species					1	5	5	5	5	S
82	100	Cotton- wood	6	6	8	ОК	Asymmetric canopy to north, moss and lichen, exposed roots, typical of species					1	8	8	8	8	S
83	101	Haw-thorne	3, 4, 9, 7, 8, 6	16	13	ок	Co-dominant leaders with included bark x6 @ root crown, typical of species, dead wood, moss and lichen					1	13	13	13	13	S
84	102	Cotton- wood	6	6	5	ОК	Self-corrected lean to south, typical of species					1	5	5	5	5	S
85	103	Cotton- wood	6.5	6.5	7	Fair	Moss and lichen, root joined with #92, moss and lichen				1		7	7	7	7	Ν
86	104	Alder	7	7	10	OK	Typical of species					1	10	10	10	10	S
87	105	Alder	9	9	14	OK	Typical of species					1	14	14	14	14	S
88	106	Cascara	8	8	12	Poor	Vertical crack on north, low live crown ratio less than 10%				1		12	12	12	12	Ν
89	107	Cotton- wood	9	9	8	ОК	Low live crown ratio less than 10%, OK in grove					1	8	8	8	8	S
90	108	Cascara	12	12	15	OK	Typical of species					1	15	15	15	15	S
91	109	Cascara	9	9	15	ОК	Typical of species, asymmetric canopy to east					1	15	15	15	15	S
92	110	Cotton- wood	10	10	14	ОК	Co-dominant leaders with included bark x2 @ root crown, typical of species					1	14	14	14	14	S
93	112	Alder	9	9	10	OK	Dead wood, typical of species					1	10	10	10	10	S
94	113	Alder	9	9	0	Poor	Dead				1		0	0	0	0	Ν
95	114	Alder	8	8	0	Poor	Dead				1		0	0	0	0	Ν

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radius	s in ft		, z z
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Z	Ш	S	W	LM=Landmark S=Significant N=Non- significant
96	115	Cotton- wood	12	12	17	ОК	Typical of species					1	17	17	17	17	S
97	116	Alder	8	8	0	Poor	Dead				1		0	0	0	0	N
98	117	Alder	9	9	15	ОК	Self-corrected lean to east, typical of species					1	15	15	15	15	S
99	118	Alder	7	7	8	OK	Typical of species					1	8	8	8	8	S
10 0	119	Alder	9	9	12	ок	Typical of species					1	12	12	12	12	S
10 1	120	Alder	7	7	10	Fair	Previous top loss, suppressed canopy				1		10	10	10	10	Ν
10 2	121	Alder	9	9	14	ОК	Asymmetric canopy to east, typical of species					1	14	14	14	14	S
10 3	122	Alder	7	7	10	Fair	Lean to south, not self- corrected lean				1		10	10	10	10	N
10 4	123	Alder	8	8	12	ОК	Typical of species					1	12	12	12	12	S
10 5	124	Alder	9	9	16	ОК	Lean to south, self-corrected lean to south					1	16	16	16	16	S
10 6	125	Alder	6	6	11	ОК	Self-corrected lean to south, typical of species					1	11	11	11	11	S
10 7	126	Alder	7	7	11	ОК	Lean to east, suppressed canopy, typical of species	1					11	11	11	11	S
10 8	127	Alder	8	8	10	ОК	Typical of species, self- corrected lean to south	1					10	10	10	10	S
10 9	128	Red alder	8	8	22	ОК	Serpentine trunk, typical of species, asymmetric canopy to east					1	22	22	22	22	S
11 0	129	Red alder	6	6	12	ОК	Typical of species					1	12	12	12	12	S
11 1	130	Red alder	8.5	8.5	18	Fair	Ivy @ root crown to 25', asymmetric canopy to north, lean to north				1		18	18	18	18	N
11 2	131	Red alder	6	6	16	ОК	Asymmetric canopy to east, typical of species					1	16	16	16	16	S

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									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radius	s in ft	•	¥∠
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Ζ	ш	S	w	LM=Landmark S=Significant N=Non- significant
11 3	132	Red alder	6	6	16	ОК	Asymmetric canopy to east, typical of species					1	16	16	16	16	S
11 4	133	Red alder	9	9	16	ОК	Asymmetric canopy to east, typical of species					1	16	16	16	16	S
11 5	134	Red alder	7	7	16	ОК	Lean to east, asymmetric canopy to east, typical of species					1	16	16	16	16	S
11 6	135	Red alder	11, 10, 9	17.5	14	OK	Typical of species, co- dominant leaders with included bark x3 @ root crown, lean not self-corrected lean to east					1	14	14	14	14	S
11 7	138	Red alder	8	8	18	Fair	Sway to east, asymmetric canopy to east				1		18	18	18	18	N
11 8	139	Red alder	11	11	10	Poor	Top dead				1		10	10	10	10	N
11 9	140	Red alder	7	7	10	Fair	Low live crown ratio less than 10%, dead spur, OK in grove				1		10	10	10	10	Ν
12 0	141	Red alder	10	10	16	Fair	Lean to southwest, asymmetric canopy to west, ivy @ root crown up to 6'				1		16	16	16	16	Ν
12 1	142	Red alder	12	12	14	ОК	Typical of species, asymmetric canopy to southeast					1	14	14	14	14	S
12 2	143	Red alder	9	9	18	Fair	Lean to east, asymmetric canopy to east				1		18	18	18	18	Ν
12 3	144	Red alder	8	8	23	Fair	Asymmetric canopy to east, lean to east				1		23	23	23	23	N
12 4	145	Red alder	13	13	24	OK	Typical of species, asymmetric canopy to south, moss and lichen					1	24	24	24	24	S
12 5	146	Red alder	9	9	28	Fair	Serpentine trunk, asymmetric canopy to east, lean to east				1		28	28	28	28	Ν

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed .	Action		Т	PR/LC	D/CR	Z	-uo
					Drip-			F	Retain		Ren	nove	ļ	Radiu	s in ft	•	nark N=N nt
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Ν	E	S	W	LM=Landmark S=Significant N=Non-
12 6	148	Red alder	7	7	12	ОК	Self-corrected lean to west, ivy @ root crown to 10', typical of species					1	12	12	12	12	S
12 7	149	Grand Fir	16, 17	23.5	16	ОК	Co-dominant leaders with included bark x2 @ root crown, ivy @ root crown to 50', dead wood, broken branches, maybe OK with ivy removed	1					16	16	16	16	S
12 8	150	Bigleaf maple	8	8	11	ок	Ivy to top of tree, low live crown ratio <15% remove ivy to save	1					11	11	11	11	S
12 9	151	Bigleaf maple	12	12	24	ОК	Ivy @ root crown to top of tree, asymmetric canopy to east, previous top loss, low live crown ratio less than 10% remove ivy to save	1					24	24	24	24	S
13 0	152	Bigleaf maple	9	9	21	Poor	Serpentine trunk, asymmetric canopy to east, lean to east, ivy @ root crown up to 35'				1		21	21	21	21	Ν
13 1	153	Cherry	11	11	6	Poor	Ivy @ root crown to top of tree				1		6	6	6	6	Ν
13 2	154	Haw-thorne	5, 4, 3, 6, 4, 5	11	18	ок	Co-dominant leaders with included bark x6 @ root crown, moss and lichen, typical of species, ivy @ root crown up to 15', OK with ivy removed	1					18	18	18	18	S
13 3	155	Bigleaf maple	21	21	18	ОК	Ivy @ root crown up to 40', typical of species, OK if cleaned up					1	18	18	18	18	S
13 4	156	Bigleaf maple	8	1	1	Poor	Dead				1		1	1	1	1	Ν
13 5	157	Bigleaf maple	15	15	18	ОК	Moss and lichen, asymmetric canopy to east					1	18	18	18	18	S

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radius	s in ft		Ϋ́Ξ
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Z	ш	S	¥	LM=Landmark S=Significant N=Non- significant
13 6	158	Bigleaf maple	10	10	10	Poor	Mostly dead				1		10	10	10	10	Ν
13 7	159	Bigleaf maple	25	25	22	ОК	Typical of species, dead wood, dead scaffolds					1	22	22	22	22	S
13 8	160	Bigleaf maple	16	16	17	ОК	Exposed roots, ivy up to 25', moss and lichen, typical of species					1	17	17	17	17	S
13 9	161	Bigleaf maple	7	7	15	ок	Self-corrected lean to west, moss and lichen, typical of species, asymmetric canopy to south					1	15	15	15	15	S
14 0	162	Bigleaf maple	9	9	10	Fair	Ivy @ root crown to top of tree				1		10	10	10	10	N
14 1	163	Bigleaf maple	5, 8	9.5	14	ОК	Co-dominant leaders with included bark x2 @ root crown, ivy @ root crown up to 30'					1	14	14	14	14	S
14 2	164	Bigleaf maple	10	10	16	Fair	Serpentine trunk, low live crown ratio less than 10%, lean to west, suppressed canopy, OK in grove				1		16	16	16	16	N
14 3	165	Bigleaf maple	8	8	6	Fair	Ivy @ root crown to top of tree, low live crown ratio less than 10%, suppressed canopy, OK in grove if ivy removed				1		6	6	6	6	N
14 4	166	Bigleaf maple	7, 5	8.5	16	ОК	Typical of species, suppressed canopy, moss and lichen, asymmetric canopy to west					1	16	16	16	16	S
14 5	167	Bigleaf maple	11	11	16	Fair	Dead wood, low live crown ratio less than 5%, asymmetric canopy to southwest, OK in grove				1		16	16	16	16	N

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1	2	3	4	5	6	7	8			9				1	0		11
									<u> </u>		Action			PR/LC			-uo
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Ruffer Buffer	Impacted	viable	Remove for improvements	N	Radiu: E	s in ft S	w	LM=Landmark Significant N=Non- significant
								Ret	B	Img	-non-	Rem impro					S=Sigi
14 6	168	Apple	10, 14	17	18	Poor	Co-dominant leaders with included bark x2 @ 4', typical of species, cavity on east				1		18	18	18	18	Ν
14 7	169	Haw-thorne	9, 4, 5, 6	12.5	18	Poor	Co-dominant leaders with included bark x4 @ 3', failing to east				1		18	18	18	18	Ν
14 8	170	Haw-thorne	6	6	15	Poor	Mostly dead				1		15	15	15	15	Ν
14 9	171	Bigleaf maple	7	7	6	Poor	Hypoxylon canker, column of decay to north				1		6	6	6	6	Ν
15 0	172	Bigleaf maple	11, 9, 9, 11	20	16	Poor	Decay @ center, co-dominant leaders with included bark x4 @ root crown, cavity north, dead trunks, dead scaffolds				1		16	16	16	16	N
15 1	173	Bigleaf maple	13	13	14	Fair	Co-dominant leaders with included bark x2 @ 20', dead trunk				1		14	14	14	14	Ν
15 2	174	Bigleaf maple	29, 18, 11, 21	41.5	18	ок	Co-dominant leaders with included bark x4 @ root crown, exposed roots, undermined roots, decay @ crotch, calloused wound on east @ root crown up to 5', moss and lichen, typical of species	1					18	18	18	18	LM
15 3	175	Bigleaf maple	8, 17	19	18	ок	Co-dominant leaders with included bark x2 @ root crown, self-corrected lean to east, asymmetric canopy to west, typical of species, dead wood					1	18	18	18	18	S

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uc
	-				Drip-			F	Retain			nove vi		Radius	s in ft		mark N=N
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non-
15 4	177	Bigleaf maple	16, 27	31.5	30	ок	Co-dominant leaders with included bark x2 @ root crown, poor pruning with decay, hanger, barbed wire, moss and lichen, dead scaffolds	1*					23	30	30	30	LM
15 5	178	Bigleaf maple	9	9	19	Fair	Cavity on north, dead wood, broken branches, asymmetric canopy to west, OK in grove				1		19	19	19	19	Ν
15 6	179	Bigleaf maple	12, 13, 10, 6, 16, 15	30.5	36	Poor	Co-dominant leaders with included bark x6 @ root crown, dead wood, broken branches, low live crown ratio less than 15%, Hypoxylon canker, girdling wire				1		36	36	36	36	N
15 7	181	Douglas fir	29	29	24	Fair	No taper, dead wood, broken branches, abnormal bark, shedding bark, carpenter ants, OK possible in grove				1		24	24	24	24	N
15 8	182	Douglas fir	29	29	20	Fair	Calloused wound @ 3' on west, abnormal bark, popping bark, vertical crack 5' to 12' on west, horizontal crack @ 12' on west, shedding bark, carpenter ants bark only, asymmetric canopy to west, previous top loss				1		20	20	20	20	N
15 9	183	Douglas fir	34	34	26	ок	Exposed roots, dead wood, dead twigs, broken branches, previous top loss					1	26	26	26	26	LM
16 0	184	Bigleaf maple	10, 12, 12	19.5	30	ОК	Co-dominant leaders with included bark x3 @ root crown, typical of species, dead scaffolds, poor pruning with decay, OK possible in					1	30	30	30	30	S

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radius	s in ft		, Zarka Zar
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non- significant
							grove?										
							Co-dominant leaders with										
16 1	187	Black locust	13	13	18	Fair	included bark x2 @ 6', asymmetric canopy to north, dead wood, typical of species, moss and lichen				1		18	18	18	18	N
16 2	188	Black locust	9	9	17	Poor	Failing to north @ root crown				1		17	17	17	17	N
16 3	189	Black locust	10	10	22	Poor	Failing to north @ root crown				1		22	22	22	22	Ν
16 4	190	Black locust	7	7	19	Poor	Failing to north				1		19	19	19	19	Ν
16 5	191	Douglas fir	26	26	14	Fair	Moss and lichen, previous top loss, torque crack 15' on west to 25' on east, dead wood, broken branches				1		14	14	14	14	N
16 6	192	Douglas fir	13	13	14	Fair	Serpentine trunk, dead wood, broken branches, no taper, suppressed canopy, OK in grove				1		14	14	14	14	Ν
16 7	193	Black locust	13	13	10	Poor	Failing to east				1		10	10	10	10	Ν
16 8	194	Black locust	8	8	18	Poor	Leaning on #204				1		18	18	18	18	Ν
16 9	195	Black locust	9	9	14	Poor	Mostly dead				1		14	14	14	14	Ν
17 0	196	Black locust	10, 12	15.5	18	Poor	Co-dominant leaders with included bark x2 @ root crown, decay @ root crown, failing to north				1		18	18	18	18	N

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1	2	3	4	5	6	7	8			9				1	0		11
											Action				D/CR		on-
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#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Ν	E	S	W	LM=Landmark S=Significant N=Non- significant
17 1	198	Black locust	13	13	22	ОК	Lean to east, typical of species					1	22	22	22	22	S
17 2	199	Bigleaf maple	13	13	18	Fair	Self-corrected lean to north, asymmetric canopy to north, moss and lichen, typical of species				1		18	18	18	18	N
17 3	200	Bigleaf maple	7, 9, 10, 7, 6, 4, 14	23	14	Poor	Co-dominant leaders with included bark x7 @ root crown, decay @ root crown				1		14	14	14	14	N
17 4	202	Bigleaf maple	10, 11, 10, 7	19	14	ок	Co-dominant leaders with included bark x4 @ root crown, asymmetric canopy to south, dead wood, broken branches, typical of species, moss and lichen					1	14	14	14	14	S
17 5	203	Black locust	9	9	28	Poor	Failing to south @ root crown				1		28	28	28	28	Ν
17 6	204	Cotton- wood	11	11	6	Poor	Mostly dead				1		6	6	6	6	Ν
17 7	205	Cotton- wood	9	9	6	Poor	Mostly dead				1		6	6	6	6	Ν
17 8	206	Black locust	12, 11	16	21	ОК	Co-dominant leaders with included bark x2 @ root crown, typical of species					1	21	21	21	21	S
17 9	208	Bigleaf maple	14	14	20	ОК	Typical of species, dead wood					1	20	20	20	20	S
18 0	209	Western red cedar	33	33	16	Good	Nurse tree, self-corrected lean, typical of species	1					16	16	16	16	LM
18 1	210	Bigleaf maple	18, 14, 16, 18	33	34	ок	Nurse tree, co-dominant leaders with included bark x4 @ 1'	1*					26	34	34	34	LM

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	on-
								F	Retain		Ren	nove		Radiu	s in ft	•	ark ⊤ ⊒ N
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non- significant
18 2	211	Lodge pole pine	16	16	20	Poor	Previous top loss, serpentine trunk, dead wood, broken branches, suppressed canopy, low live crown ratio less than 10%, woodpecker activity, horizontal crack on south @ 11', OK in grove				1		20	20	20	20	N
18 3	212	Lodge pole pine	12	12	12	ОК	Serpentine trunk, dead wood, low live crown ratio less than 10%, OK in grove					1	12	12	12	12	S
18 4	213	Grand fir	11	11	12	Fair	Thin canopy, low live crown ratio less than 25%, OK in grove				1		12	12	12	12	Ν
18 5	214	Grand fir	24	24	20	ОК	Typical of species, asymmetric canopy to west, torque crack, OK in grove					1	20	20	20	20	S
18 6	215	Grand fir	18	18	17	ОК	Lightening strike, asymmetric canopy to northeast, typical of species					1	17	17	17	17	S
18 7	216	Bigleaf maple	21, 17	27	28	ОК	Co-dominant leaders with included bark x2 @ 2', cavity on north, previous large trunk failure, typical of species, could be pruned	1					28	28	28	28	S
18 8	217	Bigleaf maple	16	16	24	ОК	Typical of species					1	24	24	24	24	S
18 9	218	Bigleaf maple	16	16	18	ОК	Typical of species					1	18	18	18	18	S
19 0	219	Apple	13	13	16	ОК	Dead wood, dead scaffolds, typical of species	1					16	16	16	16	S
19 1	220	Apple	7, 2, 12, 7	15.5	12	Poor	Co-dominant leaders with included bark x4 @ root crown, mostly dead				1		12	12	12	12	N
19	221	Pear tree	12	12	10	OK	Typical of species, dead wood					1	10	10	10	10	S

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									Prop	osed	Action		Т	PR/LC	D/CR	Z	uo -
								F	Retain		Ren	nove		Radiu	s in ft		r ⊒ ark
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	Е	S	W	LM=Landmark S=Significant N=Non- significant
2																	
19 3	222	Bigleaf maple	20	20	17	Fair	Ivy @ root crown up to 40', dead wood, typical of species, cavity @ root crown up to 2' on north, exposed roots				1		17	17	17	17	N
19 4	223	Bigleaf maple	9	9	20	Fair	Self-corrected lean to north, failing to north, moss and lichen				1		20	20	20	20	N
19 5	224	White pine	27, 15	31	20	ок	Co-dominant leaders with included bark x2 @ root crown, typical of species, dead wood, broken branches, bush top, ivy @ root crown up to 25', self-corrected lean to west, free flowing sap on south					1	20	20	20	20	LM
19 6	226	Grand fir	12, 11	16.5	14	Poor	Co-dominant leaders with included bark x2 @ root crown, ivy @ root crown up to 20', dead wood, low live crown ratio, mostly dead				1		14	14	14	14	N
19 7	228	Bigleaf maple	10	10	12	ОК	Typical of species, asymmetric canopy to west, ivy @ root crown to 13', dead spur @ root crown, suppressed canopy					1	12	12	12	12	S
19 8	229	Grand fir	14	14	17	ОК	Ivy @ root crown up to 40', dead wood, broken branches, typical of species, moss and lichen, OK if cleaned and pruned					1	17	17	17	17	S

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radiu	s in ft		ark
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Ν	E	S	W	LM=Landmark S=Significant N=Non-
19 9	230	White pine	17, 12	21	7	Poor	Co-dominant leaders with included bark x2 @ root crown, ivy @ root crown up to top of tree, mostly dead				1		7	7	7	7	N
20 0	231	Grand fir	12	12	6	Poor	Mostly dead				1		6	6	6	6	Ν
20 1	232	Lodge pole pine	11	11	6	Poor	Failing to south				1		6	6	6	6	Ν
20 2	233	Lodge pole pine	9	9	6	Fair	Ivy @ root crown to top of tree				1		6	6	6	6	N
20 3	234	Grand fir	14	14	9	Poor	Ivy @ root crown to top of tree, dead wood, broken branches, mostly dead				1		9	9	9	9	N
20 4	235	Grand fir	14	14	10	Poor	Ivy @ root crown to top of tree, suppressed canopy, mostly dead				1		10	10	10	10	Ν
20 5	236	Bigleaf maple	9	9	14	ОК	Previous top loss, asymmetric canopy to east, suppressed canopy					1	14	14	14	14	S
20 6	237	Grand fir	18	18	12	ок	Ivy @ root crown to 50', dead wood, dead twigs, typical of species, OK if pruned and in grove					1	12	12	12	12	S
20 7	238	Bigleaf maple	17	17	20	ОК	Serpentine trunk, ivy @ root crown to top of tree, dead wood, broken branches, undermined roots, asymmetric canopy to south	1					20	20	20	20	S
20 8	239	Bigleaf maple	20	20	26	Poor	Self-corrected lean to south, asymmetric canopy to south, undermined roots		1				26	26	26	26	Ν

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed .	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain	-	Ren	nove		Radiu	s in ft		ar ∠
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non- significant
20 9	240	Bigleaf maple	14, 16, 20	29	18	Poor	Co-dominant leaders with included bark x3 @ root crown reduced to 2, ivy @ root crown up to 40', dead wood, broken branches, undermined roots		1				18	18	18	18	N
21 0	242	Bigleaf maple	40	40	26	ок	Ivy @ root crown to top of tree, dead wood, dead scaffold, moss and lichen, OK in grove	1					26	26	26	26	LM
21 1	243	Bigleaf maple	18	18	24	ОК	Serpentine trunk, self- corrected lean to east, dead wood, dead scaffolds, OK if pruned	1					24	24	24	24	S
21 2	244	Bigleaf maple	12	12	12	ОК	Low live crown ratio less than 5%, typical of species, OK in grove	1					12	12	12	12	S
21 3	245	Bigleaf maple	12	12	20	ОК	Co-dominant leaders with included bark x3 @ 7', dead spur, moss and lichen				1		20	20	20	20	Ν
21 4	246	Cotton- wood	19	19	16	ОК	Asymmetric canopy to east, ivy @ root crown to top of tree, dead wood					1	16	16	16	16	S
21 5	247	Cotton- wood	13	13	7	ОК	Lean to east, not self- corrected lean, ivy @ root crown to top of tree, low live crown ratio less than 5%, OK in grove					1	7	7	7	7	S
21 6	248	Cotton- wood	8	8	6	ОК	Ivy @ root crown to top of tree, low live crown ratio less than 5%, maybe OK in grove					1	6	6	6	6	S

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radiu	s in ft		t ⊒ ark
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non-
21 7	249	Cotton- wood	19	19	12	ОК	Typical of species, ivy @ root crown up to 40', dead wood, broken branches, maybe OK in grove					1	12	12	12	12	S
21 8	250	Cotton- wood	9	9	9	Fair	Ivy @ root crown to top of tree, low live crown ratio less than 5%				1		9	9	9	9	Ν
21 9	251	Red alder	6	6		Poor	Mostly dead				1						Ν
22 0	252	Cotton- wood	8	8	5	Poor	Ivy @ root crown to top of tree, mostly dead				1		5	5	5	5	Ν
22 1	253	Cotton- wood	16	16	16	Fair	Ivy @ root crown up to 40', decay @ root crown, low live crown ratio less than 15%				1		16	16	16	16	Ν
22 2	254	Grand fir	19	19	12	ОК	Typical of species, asymmetric canopy to west, ivy @ root crown to top tree					1	12	12	12	12	S
22 3	255	Bigleaf maple	10	10	13	ОК	ivy root crown to top of tree, self-corrected lean east, typical of species, OK in grove					1	13	13	13	13	S
22 4	256	Bigleaf maple	8	8	12	Fair	Self-corrected lean to east, lean to east, ivy @ root crown to top of tree, low live crown ratio less than 15%, OK in grove				1		12	12	12	12	N
22 5	257	Bigleaf maple	9, 6, 8	13.5	12	Fair	Self-corrected lean to east, lean to east, ivy @ root crown to top of tree, low live crown ratio less than 15%				1		12	12	12	12	N

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	u - uo
								F	Retain		Rem	nove	I	Radius	s in ft		, ⊐ ar
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	Е	S	W	LM=Landmark S=Significant N=Non- significant
22 6	258	Cotton- wood	13	13	16	ОК	Decay @ root crown, spur @ 1', ivy @ root crown up to 35', carpenter ants, moss and lichen, typical of species, maybe OK in grove					1	16	16	16	16	S
22 7	259	Cascara	7	7	3	Poor	Mostly dead				1		3	3	3	3	Ν
22 8	260	Bigleaf maple	15	15	16	Fair	Lean to north, dead wood, dead scaffolds, co-dominant leaders with included bark x2 @ 5', OK in grove				1		16	16	16	16	N
22 9	261	Bigleaf maple	8.5	8.5	16	Fair	Asymmetric canopy to north, dead wood, ivy @ root crown up to 20', moss and lichen, OK in grove				1		16	16	16	16	N
23 0	262	Bigleaf maple	8, 9	12	12	Fair	Co-dominant leaders with included bark x2 @ root crown, dead wood, dead scaffolds, ivy up to 35', asymmetric canopy to north, low live crown ratio less than 10%, OK in grove				1		12	12	12	12	N
23 1	263	Red alder	8	8	9	ОК	Typical of species					1	9	9	9	9	S
23 2	264	Red alder	8	8	9	ОК	Typical of species					1	9	9	9	9	S
23 3	265	Red alder	8	8	9	ОК	Typical of species, asymmetric canopy to north					1	9	9	9	9	S
23 4	266	Red alder	7	7	11	ОК	Moss and lichen, typical of species					1	11	11	11	11	S
23 5	267	Red alder	7, 3	7.5	10	ОК	Typical of species, co- dominant leaders with included bark x2 @ root crown					1	10	10	10	10	S

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radiu	s in ft		Ϋ́Ξ.
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Ν	E	S	W	LM=Landmark S=Significant N=Non- significant
23 6	268	Red alder	9	9	12	Fair	Asymmetric canopy to north, lean				1		12	12	12	12	Ν
23 7	269	Red alder	7	7	8	Fair	Asymmetric canopy to north, typical of species				1		8	8	8	8	Ν
23 8	270	Red alder	6	6	8	ОК	Typical of species, moss and lichen					1	8	8	8	8	S
23 9	271	Red alder	15	15	16	Poor	Large unhealed wound @ 4' on west, failing to west				1		16	16	16	16	N
24 0	272	Red alder	6	6	9	Fair	Typical of species, lean to north				1		9	9	9	9	Ν
24 1	273	Red alder	6	6	10	ОК	Typical of species					1	10	10	10	10	S
24 2	274	Red alder	8	8	9	Fair	Asymmetric canopy to north, lean to north				1		9	9	9	9	Ν
24 3	275	Red alder	7	7	9	ОК	Asymmetric canopy to north, typical of species					1	9	9	9	9	S
24 4	276	Red alder	7	7	10	Fair	Asymmetric canopy to north, lean to north				1		10	10	10	10	Ν
24 5	277	Red alder	6	6	9	ОК	Typical of species					1	9	9	9	9	S
24 6	278	Red alder	7	7	14	Fair	Dead wood, broken branches, previous top loss, co- dominant leaders with included bark x2 @ 18'				1		14	14	14	14	N
24 7	279	Red alder	8	8	12	ОК	Asymmetric canopy to north, typical of species					1	12	12	12	12	S
24 8	280	Red alder	7	7	11	Fair	Asymmetric canopy to north, typical of species, low live crown ratio less than 20%				1		11	11	11	11	Ν
24 9	281	Red alder	6	6	10	ОК	Asymmetric canopy to north, low live crown ratio less than 20%, typical of species, moss and lichen					1	10	10	10	10	S

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain	-	Ren	nove		Radius	s in ft		, z ⊂ ⊓
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Ν	E	S	W	LM=Landmark S=Significant N=Non- significant
25 0	282	Red alder	6	6	12	Poor	Asymmetric canopy to north, failing to north				1		12	12	12	12	Ν
25 1	283	Red alder	7	7	10	ОК	Typical of species					1	10	10	10	10	S
25 2	284	Red alder	6	6	12	ОК	Asymmetric canopy to north					1	12	12	12	12	S
25 3	285	Red alder	8	8	11	Fair	Asymmetric canopy to north, lean to north, typical of species				1		11	11	11	11	Ν
25 4	286	Red alder	6	6	12	Poor	Asymmetric canopy to north, failing to north				1		12	12	12	12	Ν
25 5	287	Red alder	7	7	12	Fair	Asymmetric canopy to north, ivy @ root crown up to 12'				1		12	12	12	12	Ν
25 6	288	Red alder	6	6	11	Fair	Asymmetric canopy to north, lean to north, typical of species				1		11	11	11	11	Ν
25 7	289	Red alder	6	6	9	ОК	Typical of species, dead wood, broken branches					1	9	9	9	9	S
25 8	290	Red alder	6	6	8	ОК	Typical of species					1	8	8	8	8	S
25 9	291	Red alder	6	6	10	ОК	Kink in trunk @ 11', typical of species					1	10	10	10	10	S
26 0	292	Red alder	6	6	7	Fair	Suppressed canopy, asymmetric canopy to north				1		7	7	7	7	Ν
26 1	293	Red alder	7	7	10	ОК	Ivy @ root crown up to 12', typical of species					1	10	10	10	10	S
26 2	294	Red alder	7	7	9	Fair	Asymmetric canopy to north, low live crown ratio less than 30%, lean to north				1		9	9	9	9	Ν
26 3	295	Red alder	7	7	10	Fair	Asymmetric canopy to north, ivy @ root crown up to 12', lean to north				1		10	10	10	10	Ν

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radiu	s in ft		, T Z Z
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non- significant
26 4	296	Red alder	6	6	9	Fair	Ivy @ root crown up to 20', asymmetric canopy to north, typical of species				1		9	9	9	9	Ν
26 5	297	Red alder	7	7	12	Poor	Previous ivy @ root crown up to 16', asymmetric canopy to north, failing to north				1		12	12	12	12	Ν
26 6	298	Red alder	7	7	9	ОК	Broken branches, low live crown ratio less than 25%, typical of species					1	9	9	9	9	S
26 7	299	Red alder	7	7	12	Poor	Previous top loss, failing to north, asymmetric canopy to north				1		12	12	12	12	Ν
26 8	300	Red alder	7	7	10	Fair	Previous top loss, asymmetric canopy to north, typical of species				1		10	10	10	10	Ν
26 9	301	Red alder	6	6	9	Fair	Serpentine trunk, low live crown ratio less than 15%, ivy @ root crown up to 10'				1		9	9	9	9	Ν
27 0	302	Red alder	7	7	8	Fair	Wound @ 15' on east, typical of species				1		8	8	8	8	Ν
27 1	303	Red alder	6	6	6	ОК	Typical of species					1	6	6	6	6	S
27 2	304	Red alder	6	6	9	ОК	Asymmetric canopy to north, moss and lichen, typical of species					1	9	9	9	9	S
27 3	305	Red alder	6	6	5	ОК	Typical of species					1	5	5	5	5	S
27 4	306	Red alder	6	6	5	ОК	Typical of species					1	5	5	5	5	S
27 5	307	Red alder	6	6	5	ОК	Typical of species					1	5	5	5	5	S

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action				D/CR		on-
								F	Retain	1	Ren	nove		Radiu	s in ft	•	r = N
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	w	LM=Landmark S=Significant N=Non- significant
27 6	308	Bigleaf maple	15,14	21	19	Fair	Co-dominant leaders with included bark X 2 @ root crown, moss and lichen, dead wood				1		19	19	19	19	N
27 7	310	Cotton- wood	17	17	16	Poor	Moss and lichen, co-dominant leaders with included bark X 2 @ 30', weak attachment				1		16	16	16	16	N
27 8	311	Bigleaf maple	14,16,17	24	20	ОК	Co-dominant leaders with included bark X 3 @s, moss and lichen, typical of species, dead wood					1	20	20	20	20	S
27 9	312	Bigleaf maple	16	16	14	Fair	Asymmetric canopy NW, previous top loss, moss and lichen, serp trunk, OK in grove				1		14	14	14	14	N
28 0	313	Bigleaf maple	16	16	15	ОК	co-dominant leaders with included bark x 2 @ root crown, asymmetric canopy north, moss and lichen , typical of species					1	15	15	15	15	S
28 1	314	Bigleaf maple	12,14	18	18	Poor	Co-dominant leaders with included bark X 2 @ root crown, moss and lichen, previous top loss				1		18	18	18	18	N
28 2	315	Bigleaf maple	14,14,7, 6	22	18	ОК	co-dominant leaders with included bark X 4 @ root crown, moss and lichen, exposed roots, growing on the top of the slope					1	18	18	18	18	S
28 3	316	Bigleaf maple	16,14	21	17	Fair	co-dominant leaders with included bark x 2 @ root crown, wited trunks, previous top loss, asymmetric canopy north, moss and lichen				1		17	17	17	17	Ν

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
#	Tree Tag	Species ID	DBH (in)	Adj. DBH	Drip- line	Health	Defects/Comments		Retain			for ents	1	Radiu	s in ft		ndmark ant N=N ficant
"	#	Species ID		(in)	radiu s (ft)	neaith	Derects/ comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non- significant
28 4	317	Bigleaf maple	20,15	25	16	Fair	co-dominant leaders with included bark X3 now 2 @ root crown, previous top loss, dead wood, dead scaffold				1		16	16	16	16	N
28 5	318	Bigleaf maple	15	15	18	Fair	Asymmetric canopy to east, lean 5° east, dead wood, moss and lichen				1		18	18	18	18	Ν
28 6	319	Bigleaf maple	8	8	13	ОК	Moss and lichen, typical of species, co-dominant leaders with included bark x2 @ 7'					1	13	13	13	13	S
28 7	320	Red alder	9	9	12	Poor	Unhealed wound @ 4' on west, decay				1		12	12	12	12	Ν
28 8	321	Red alder	8, 5	9.5	11	ок	Co-dominant leaders with included bark x2 @ root crown, moss and lichen, lean to north, typical of species					1	11	11	11	11	S
28 9	322	Red alder	6.5	6.5	10	ОК	Asymmetric canopy to north, moss and lichen, typical of species					1	10	10	10	10	S
29 0	323	Red alder	7	7	12	ОК	Typical of species, asymmetric canopy to north, dead wood					1	12	12	12	12	S
29 1	324	Red alder	7	7	9	ОК	Typical of species, asymmetric canopy to north					1	9	9	9	9	S
29 2	325	Red alder	9, 2	9	7	Fair	Co-dominant leaders with included bark x2 @ root crown, asymmetric canopy to north, undermined roots, typical of species				1		7	7	7	7	N
29 3	326	Red alder	6.5, 6, 7	11.5	12	Fair	Co-dominant leaders with included bark x3 @ root crown, typical of species, dead wood, moss and lichen, self-corrected lean to north				1		12	12	12	12	N

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	ark =Non- t
								F	Retain		Ren	nove		Radius	s in ft		t ⊒ ark
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Ζ	Е	S	W	LM=Landmark S=Significant N=No significant
29 4	328	Red alder	7	7	7	ОК	Typical of species, co- dominant leaders with included bark x2 @ 9'					1	7	7	7	7	S
29 5	329	Red alder	6	6	8	Fair	Serpentine trunk, asymmetric canopy to north, moss and lichen				1		8	8	8	8	Ν
29 6	330	Red alder	7	7	8	ОК	Typical of species					1	8	8	8	8	S
29 7	331	Red alder	7	7	7	ОК	Typical of species					1	7	7	7	7	S
29 8	332	Haw-thorne	10, 6	11.5	15	Fair	Co-dominant leaders with included bark x2 @ root crown, typical of species, dead wood, moss and lichen, decay @ root crown				1		15	15	15	15	N
29 9	333	Bigleaf maple	8, 10, 10, 9, 4	19	16	Poor	Co-dominant leaders with included bark x5 @ root crown, decay @ root crown, dead trunk, multiple previous top loss, carpenter ants				1		16	16	16	16	N
30 0	334	Bigleaf maple	8, 7, 6	12	12	Poor	Co-dominant leaders with included bark x4 reduced to 3 @ root crown, moss and lichen, two dead trunks				1		12	12	12	12	N
30 1	335	Red alder	7	7	10	Poor	Mostly dead, failing to south				1		10	10	10	10	Ν
30 2	336	Douglas fir	34	34	14	ок	Exposed roots, horizontal crack in bark @ 4', typical of species					1	14	14	14	14	LM

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Retain	Impacted	Non- viable	Remove for a improvements	N	Radiu: E	s in ft S	w	LM=Landmark S=Significant N=Non- significant
30 3	337	Bigleaf maple	15, 21, 12	28.5	20	Poor	Co-dominant leaders with included bark x3 @ root crown, undermined roots, cavity @ root crown on south, cavity @ root crown on east, exposed roots, dead wood, dead scaffold, nurse tree, asymmetric canopy to south, vertical crack @ root crown 6' on west				1		20	20	20	20	N
30 4	340	Douglas fir	39	39	20	ок	Moss and lichen, dead wood, broken branches, hangers, OK with pruning					1	20	20	20	20	LM
30 5	341	Bigleaf maple	20, 42	46.5	24	Fair	Co-dominant leaders with included bark x2 @ 4', dead scaffold, hangers, calloused wound @ root crown to 6', moss and lichen				1		24	24	24	24	N
30 6	342	Bigleaf maple	11	11	14	Poor	Serpentine trunk, asymmetric canopy to west, co-dominant leaders with included bark x2 reduced to 1 @ 3'				1		14	14	14	14	N
30 7	343	Haw-thorne	6, 9, 7	13	18	Fair	Co-dominant leaders with included bark x3 @ root crown, moss and lichen, asymmetric canopy to west, dead wood, broken branches				1		18	18	18	18	N
30 8	344	Bigleaf maple	16, 12, 16	25.5	18	Fair	Co-dominant leaders with included bark x3 @ 4', dead wood, top dead				1		18	18	18	18	N
30 9	345	Fruiting pear	9	9	4	Poor	Mostly dead				1		4	4	4	4	Ν
31 0	346	Bigleaf maple	14	14	13	ОК	Typical of species, moss and lichen, dead wood					1	13	13	13	13	S

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radiu	s in ft		ALZ
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non- significant
31 1	347	Bigleaf maple	12,11,10	19	14	Poor	co-dominant leaders with included bark X3@ root crown, self-corrected lean north, decay @ root crown, undermined roots				1		14	14	14	14	N
31 2	348	Bigleaf maple	13	13	17	ОК	Moss and lichen, co-dominant leaders with included bark 2 @14', typical of species					1	17	17	17	17	S
31 3	349	Bitter cherry	8	8	14	Poor	Gummosis, mostly dead				1		14	14	14	14	Ν
31 4	350	Bigleaf maple	22, 25, 25, 15, 15, 10	48	26	ок	Co-dominant leaders with included bark x6 @ 1', typical of species, dead wood, dead scaffold, OK with pruning					1	26	26	26	26	LM
31 5	351	Cascara	11	11	15	ОК	Typical of species, dead wood					1	15	15	15	15	S
31 6	352	Red alder	6	6	9	ОК	Typical of species					1	9	9	9	9	S
31 7	353	Red alder	6	6	7	ОК	Asymmetric canopy to northeast, typical of species					1	7	7	7	7	S
31 8	354	Bigleaf maple	11	11	14	Fair	Asymmetric canopy to north, dead wood, broken branches, suppressed canopy, asymmetric canopy to north, OK in grove				1		14	14	14	14	N
31 9	355	Red alder	8, 6	10	12	Fair	Co-dominant leaders with included bark x2 @ root crown, moss and lichen, typical of species				1		12	12	12	12	N
32 0	357	Red alder	7	7	8	Fair	Typical of species, moss and lichen, low live crown ratio less than 10%				1		8	8	8	8	Ν

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	u - uo
					Drip-			F	Retain I		Ren	nove		Radius	s in ft	•	nark N=N
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non- significant
32 1	358	Red alder	7	7	10	Fair	Asymmetric canopy to south, lean to south, typical of species				1		10	10	10	10	Ν
32 2	359	Red alder	6	6	10	Fair	Self-corrected lean to east, asymmetric canopy to east, typical of species				1		10	10	10	10	Ν
32 3	360	Red alder	7	7	11	Fair	Self-corrected lean to east, asymmetric canopy to east				1		11	11	11	11	Ν
32 4	361	Red alder	8	8	10	Poor	Self-corrected lean, typical of species, wounds @ root crown up to 3'				1		10	10	10	10	Ν
32 5	362	Red alder	6	6	12	Fair	Lean to south, not self- corrected lean				1		12	12	12	12	N
32 6	363	Red alder	9	9	13	Poor	Asymmetric canopy to south, unhealed wounds @ root crown up to 3'				1		13	13	13	13	Ν
32 7	364	Bitter cherry	8	8	10	Poor	Typical of species, decay @ root crown				1		10	10	10	10	Ν
32 8	365	Bigleaf maple	7	7	11	ок	Typical of species, low live crown ratio less than 20%, moss and lichen, exposed roots					1	11	11	11	11	S
32 9	366	Bigleaf maple	14	14	13	Fair	Co-dominant leaders with included bark x2 @ 5', asymmetric canopy to east, dead wood, moss and lichen, lean to south				1		13	13	13	13	N
33 0	367	Bitter cherry	8	8	10	Fair	Probable crack @ root crown up to 10' on west, "seam in bark"				1		10	10	10	10	Ν
33 1	368	Bitter cherry	7	7	12	Fair	Dead wood, broken branches, low live crown ratio less than 10%, asymmetric canopy to east				1		12	12	12	12	N

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	uo -
								F	Retain		Ren	nove	l	Radiu	s in ft		ark
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	Е	S	W	LM=Landmark S=Significant N=Non-
33 2	369	Bitter cherry	6	6	10	Fair	Dead wood, broken branches, gummosis, asymmetric canopy to east				1		10	10	10	10	Ν
33 3	370	Bitter cherry	10	10	9	Fair	Serpentine trunk, asymmetric canopy to north, typical of species, OK in grove				1		9	9	9	9	Ν
33 4	371	Bitter cherry	12	12	9	Fair	Previous top loss, serpentine trunk, typical of species, OK in grove				1		9	9	9	9	Ν
33 5	372	Bitter cherry	13	13	12	ОК	Co-dominant leaders with included bark x2 @ 11', typical of species					1	12	12	12	12	S
33 6	373	Haw-thorne	11	11	12	Fair	Co-dominant leaders with included bark x3 @ 6', poor attachments, OK in grove				1		12	12	12	12	Ν
33 7	374	Bitter cherry	9	9	10	Poor	Vertical crack @ root crown up to 20'				1		10	10	10	10	Ν
33 8	375	Bitter cherry	7	7	9	Fair	Lean to north, asymmetric canopy to north, gummosis, moss and lichen, OK in grove				1		9	9	9	9	Ν
33 9	376	Bitter cherry	7	7	9	Fair	Self-corrected lean to west, low live crown ratio less than 10%, gummosis, OK in grove				1		9	9	9	9	Ν
34 0	377	Bitter cherry	7	7	8	Fair	Asymmetric canopy to north, low live crown ratio less than 15%, moss and lichen, gummosis, OK in grove				1		8	8	8	8	N
34 1	378	Bitter cherry	8, 6	10	10	Poor	Co-dominant leaders with included bark x2 @ root crown, narrow trunk, attachments				1		10	10	10	10	N

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1	2	3	4	5	6	7	8			9				1			11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radius	s in ft	•	ark
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	w	LM=Landmark S=Significant N=Non-
34 2	379	Bitter cherry	8, 6	10	9	Fair	Co-dominant leaders with included bark x2 @ root crown, asymmetric canopy to south, low live crown ratio less than 15%, moss and lichen, typical of species, OK in grove				1		9	9	9	9	N
34 3	380	Bitter cherry	6	6	6	Poor	Asymmetric canopy to east, dead wood, broken branches				1		6	6	6	6	Ν
34 4	381	Bitter cherry	7, 3	7.5	8	Fair	Co-dominant leaders with included bark x2 @ root crown, typical of species, low live crown ratio less than 10%, gummosis				1		8	8	8	8	N
34 5	382	Haw-thorne	11, 11	15.5	15	Fair	Co-dominant leaders with included bark x2 @ root crown, typical of species, dead wood, broken branches, OK in grove				1		15	15	15	15	N
34 6	383	Bitter cherry	7	7	10	Poor	Self-corrected lean to south, gummosis				1		10	10	10	10	Ν
34 7	384	Haw-thorne	6, 6	8	9	Fair	Co-dominant leaders with included bark x2 @ 2', twisted trunks, moss and lichen, dead wood, broken branches				1		9	9	9	9	N
34 8	385	Haw-thorne	9, 7, 4	12	10	Poor	Co-dominant leaders with included bark x3 @ root crown, failing to east				1		10	10	10	10	N
34 9	386	Haw-thorne	4, 4, 7, 8, 8	14.5	16	Fair	Co-dominant leaders with included bark x5 @ root crown, twisted trunks, moss and lichen, dead wood, broken branches, OK in grove				1		16	16	16	16	N
35	387	Red alder	7	7	9	OK	Typical of species					1	9	9	9	9	S

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radiu	s in ft		, z z
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	Е	S	W	LM=Landmark S=Significant N=Non-
0																	
35 1	388	Haw-thorne	4, 3, 6	8	12	Fair	Co-dominant leaders with included bark x3 @ root crown, moss and lichen, dead wood, broken branches				1		12	12	12	12	N
35 2	389	Bitter cherry	9	9	16	Fair	Serpentine trunk, typical of species, wound @ 1', gummosis, OK in grove				1		16	16	16	16	Ν
35 3	390	Bitter cherry	8	8	8	Fair	Typical of species, low live crown ratio less than 10%, lean to east, self-corrected lean to east, gummosis				1		8	8	8	8	N
35 4	391	Bitter cherry	7	7	9	Fair	Serpentine trunk, moss and lichen, low live crown ratio less than 10%, gummosis, OK in grove				1		9	9	9	9	N
35 5	392	Bitter cherry	9	9	8	Fair	Exposed roots, asymmetric canopy to west, lean to west, gummosis, OK in grove				1		8	8	8	8	Ν
35 6	393	Bitter cherry	8, 3	8.5	10	Fair	Co-dominant leaders with included bark x2 @ root crown, low live crown ratio less than 10%, moss and lichen, OK in grove				1		10	10	10	10	N
35 7	394	Bitter cherry	6, 7	9	7	Fair	Co-dominant leaders with included bark x2 @ root crown, gummosis, decay @ root crown, OK with #395				1		7	7	7	7	N
35 8	395	Bitter cherry	8	8	10	Fair	Typical of species, asymmetric canopy to south, low live crown ratio less than 15%, OK in grove				1		10	10	10	10	N

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radiu	s in ft	•	arka ∠ ⊐
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	w	LM=Landmark S=Significant N=Non- significant
35 9	396	Bitter cherry	9	9	11	Fair	Moss and lichen, dead wood, broken branches, exposed roots, typical of species, OK in grove				1		11	11	11	11	N
36 0	397	Haw-thorne	18	18	16	Fair	Co-dominant leaders with included bark x7 @ 5', decay @ crotch, dead wood, broken branches, moss and lichen				1		16	16	16	16	N
36 1	398	Haw-thorne	6, 5, 4, 10, 13, 8, 5, 4	21	14	Poor	Co-dominant leaders with included bark x8 @ root crown, failing to east				1		14	14	14	14	N
36 2	399	Haw-thorne	10, 7, 4, 4, 3	14	17	Poor	Co-dominant leaders with included bark x5 @ root crown, failing to south				1		17	17	17	17	N
36 3	400	Haw-thorne	18	18	12	Fair	Typical of species, moss and lichen, failing to east				1		12	12	12	12	Ν
36 4	401	Bitter cherry	9	9	11	Fair	Dead wood, broken branches, low live crown ratio less than 15%, self-corrected lean to north				1		11	11	11	11	N
36 5	402	Bitter cherry	12	12	12	Fair	Asymmetric canopy to west, dead wood, moss and lichen, gummosis				1		12	12	12	12	Ν
36 6	403	Bitter cherry	8	8	8	Poor	Failing to east				1		8	8	8	8	Ν
36 7	404	Bitter cherry	9	9	9	Fair	Co-dominant leaders with included bark x2 @ 4', twisted trunks, dead wood, broken branches				1		9	9	9	9	N
36 8	405	Cotton- wood	18	18	12	Poor	Previous top loss, asymmetric canopy to south, moss and lichen				1		12	12	12	12	Ν

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed .	Action		Т	PR/LC	D/CR	Z	u - uo
	_				Drip-			F	Retain			nove ဖ	I	Radius	s in ft.		nark N=N
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Ν	E	S	W	LM=Landmark S=Significant N=Non- significant
36 9	406	Cotton- wood	21	21	14	Poor	Self-corrected lean, lean to south, asymmetric canopy to south				1		14	14	14	14	Ν
37 0	407	Bitter cherry	12	12	16	Poor	Failing to north @ root crown				1		16	16	16	16	Ν
37 1	408	Bitter cherry	9	9	10	Poor	Failing to west @ root crown				1		10	10	10	10	Ν
37 2	409	Red alder	12	12	14	Fair	Self-corrected lean to west, typical of species, asymmetric canopy to west, dead wood, broken branches, moss and lichen				1		14	14	14	14	N
37 3	410	Haw-thorne	8, 8, 6, 6, 5, 4, 4	16	14	Fair	Co-dominant leaders with included bark x7 @ root crown, typical of species, moss and lichen, twisted trunks, OK in grove				1		14	14	14	14	N
37 4	411	Red alder	7	7	8	Fair	Previous top loss, moss and lichen, serpentine trunk, lean to east				1		8	8	8	8	Ν
37 5	412	Cotton- wood	31	31	14	ок	Asymmetric canopy to north, typical of species, exposed roots					1	14	14	14	14	LM
37 6	413	Cotton- wood	25	25	13	Poor	Nurse tree, wound with decay @ root crown, carpenter ants, asymmetric canopy to north				1		13	13	13	13	Ν
37 7	414	Cotton- wood	27	27	12	ОК	Typical of species, exposed roots, moss and lichen, dead wood, broken branches					1	12	12	12	12	S
37 8	415	Cotton- wood	21	21	17	Poor	Lean to east, previous top loss				1		17	17	17	17	Ν
37 9	416	Cotton- wood	48	48	22	Poor	Nurse tree, previous top loss, dead wood, dead scaffold, exposed roots				1		22	22	22	22	Ν

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	u - uo
								F	Retain		Ren	nove	I	Radius	s in ft		, z ⊂
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non- significant
38 0	417	Cotton- wood	36	36	18	Poor	Previous top loss, lean to east, dead wood, broken branches				1		18	18	18	18	N
38 1	418	Cotton- wood	26	26	27	ОК	Typical of species, moss and lichen					1	27	27	27	27	S
38 2	419	Haw-thorne	7	7	14	Fair	Decay @ root crown, lean to west, dead wood, broken branches				1		14	14	14	14	Ν
38 3	420	Cotton- wood	18	18	19	Fair	Sway to east, asymmetric canopy to east, moss and lichen				1		19	19	19	19	Ν
38 4	421	Cotton- wood	9	9	7	Poor	Suppressed canopy, previous top loss, exposed roots, failing to east				1		7	7	7	7	Ν
38 5	422	Cotton- wood	12	12	30	Poor	Failing to north				1		30	30	30	30	Ν
38 6	423	Cotton- wood	35	35	18	Fair	Typical of species, moss and lichen, exposed roots, decay @ root crown				1		18	18	18	18	Ν
38 7	424	Cotton- wood	9	9	7	Poor	Failing to west				1		7	7	7	7	Ν
38 8	425	Cotton- wood	17	17	17	Fair	Sway to south, asymmetric canopy to south, moss and lichen, exposed roots				1		17	17	17	17	Ν
38 9	426	Cotton- wood	21	21	22	Fair	Slight lean to south, asymmetric canopy to south, previous top loss, exposed roots				1		22	22	22	22	N
39 0	427	Cascara	9	9	4	Poor	Mostly dead, woodpecker activity				1		4	4	4	4	Ν
39 1	428	Cascara	9	9	4	Poor	Mostly dead, woodpecker activity				1		4	4	4	4	Ν
39 2	429	Cascara	9	9	4	Poor	Mostly dead				1		4	4	4	4	Ν

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	u - Lo
								F	Retain	1	Ren	nove		Radiu	s in ft		a r Z
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Ν	E	S	W	LM=Landmark S=Significant N=Non- significant
39 3	430	Cascara	9	9	4	Poor	Mostly dead				1		4	4	4	4	Ν
39 4	431	Cotton- wood	16	16	12	ОК	Exposed roots, typical of species, suppressed canopy					1	12	12	12	12	S
39 5	432	Cotton- wood	14	14	16	Fair	Serpentine trunk, suppressed canopy, moss and lichen, exposed roots, typical of species				1		16	16	16	16	N
39 6	433	Cotton- wood	36, 40, 20	57.5	26	Fair	Co-dominant leaders with included bark x3 @ root crown, cavity @ root crown up to 3' on west, canker, moss and lichen, exposed roots, previous top loss, dead wood, wound @ 3' on south, typical of species				1		26	26	26	26	N
39 7	436	Cotton- wood	7	7	3	Poor	Typical of species, moss and lichen, previous top loss, top dead				1		3	3	3	3	Ν
39 8	437	Cotton- wood	11	11	9	Fair	Dead top, moss and lichen, exposed roots				1		9	9	9	9	Ν
39 9	438	Black locust	9	9	11	Poor	Typical of species, moss and lichen, cavity @ 3' on north, lean to east				1		11	11	11	11	Ν
40 0	439	Cotton- wood	20	20	12	Poor	Dead wood, broken branches, previous top loss				1		12	12	12	12	Ν
40 1	440	Cotton- wood	37	37	13	Fair	Typical of species, moss and lichen, exposed roots				1		13	13	13	13	Ν
40 2	441	Cotton- wood	31	31	16	Fair	Typical of species, moss and lichen, root fused with #440				1		16	16	16	16	Ν
40 3	442	Cotton- wood	15	15		Poor	Top half broken off				1						Ν

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed .	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radius	s in ft		, zz
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Z	Ш	S	W	LM=Landmark S=Significant N=Non- significant
40 4	443	Red alder	14	14	13	Fair	Typical of species, moss and lichen, low live crown ratio less than 15%				1		13	13	13	13	Ν
40 5	444	Cotton- wood	26	26	18	Fair	Moss and lichen, typical of species, previous top loss				1		18	18	18	18	Ν
40 6	445	Cotton- wood	23	23	26	Fair	Previous top loss, elongated branch				1		26	26	26	26	N
40 7	446	Cotton- wood	14	14	6	Fair	Moss and lichen, previous top loss, dead wood, broken branches				1		6	6	6	6	Ν
40 8	447	Cotton- wood	17	17	7	Poor	Previous top loss, root fused with #448				1		7	7	7	7	Ν
40 9	448	Cotton- wood	24	24	15	Poor	Moss and lichen, previous top loss, dead wood, broken branches				1		15	15	15	15	Ν
41 0	449	Red alder	7	7	9	Poor	Asymmetric canopy to west, lean to west				1		9	9	9	9	Ν
41 1	450	Cascara	13	13	14	Poor	Decay throughout, failing to north				1		14	14	14	14	Ν
41 2	451	Cotton- wood	7	7	11	Poor	Wound on north 3' to 5', dead wood				1		11	11	11	11	Ν
41 3	452	Haw-thorne	7	7	17	ОК	Moss and lichen, typical of species	1					17	17	17	17	S
41 4	453	Haw-thorne	16, 19	25	22	Poor	Co-dominant leaders with included bark x2 @ root crown, dead wood, broken branches, cavity @ root crown up to 5' on north				1		22	22	22	22	N
41 5	455	Cascara	11	11	16	Fair	Previous top loss, moss and lichen, dead wood, rooted with #453 & #454				1		16	16	16	16	Ν
41 6	456	Haw-thorne	9	9	16	ОК	Typical of species, moss and lichen, lean to north	1					16	16	16	16	S

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1	2	3	4	5	6	7	8			9				1	0		11
											Action		Т	PR/LC	D/CR	Z	-uo
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu	Health	Defects/Comments	Retained	Retain Buffer	Impacted	viable Ben	Remove for additional methods and additional methods are additional methods and additional methods are additional	N	Radiu: E	s in ft	w	LM=Landmark Significant N=Non- significant
					s (ft)			Reta	Bu	Impa	-noN	Remo improv		L	5	vv	LM= S=Sign si
41 7	457	Cotton- wood	9	9	12	Poor	Previous top loss, asymmetric canopy to west, moss and lichen				1		12	12	12	12	N
41 8	458	Cotton- wood	17	17	16	Fair	Asymmetric canopy to west, typical of species, exposed roots, moss and lichen				1		16	16	16	16	N
41 9	459	Cotton- wood	9	9	11	Poor	Sway to south, calloused wound @ 4' on west, woodpecker activity				1		11	11	11	11	N
42 0	460	Cotton- wood	25, 14	28.5	15	Poor	Co-dominant leaders with included bark x2 @ root crown, moss and lichen, exposed roots, decay @ root crown				1		15	15	15	15	N
42 1	462	Cotton- wood	9, 10, 18	22.5	20	Fair	Co-dominant leaders with included bark x3 @ root crown, moss and lichen, exposed roots, woodpecker activity, decay @ root crown, previous top loss				1		20	20	20	20	N
42 2	465	Cotton- wood	9	9	9	Poor	Failing to west				1		9	9	9	9	Ν
42 3	466	Cotton- wood	9	9	9	Poor	Asymmetric canopy to west, exposed roots, moss and lichen, failing to west				1		9	9	9	9	N
42 4	467	Cotton- wood	9	9	8	Fair	Suppressed canopy, moss and lichen, typical of species				1		8	8	8	8	Ν
42 5	468	Cotton- wood	24	24	16	ОК	Typical of species	1					16	16	16	16	S
42 6	469	Red alder	10	10	11	Fair	Multiple wounds @ root crown up to 3' on west, moss and lichen				1		11	11	11	11	N
42 7	470	Bitter cherry	7	7	16	Poor	Failing to west				1		16	16	16	16	Ν

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed .	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radiu	s in ft		Ϋ́Ξ
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Z	ш	S	¥	LM=Landmark S=Significant N=Non- significant
42 8	471	Red alder	7	7	11	Poor	Non-self-corrected lean to west				1		11	11	11	11	Ν
42 9	472	Bitter cherry	16	16	18	Poor	Failing to west				1		18	18	18	18	Ν
43 0	473	Red alder	7	7	10	Poor	Failing to west				1		10	10	10	10	Ν
43 1	474	Red alder	6	6	14	Poor	Previous top loss, failing to west				1		14	14	14	14	Ν
43 2	475	Red alder	10	10	8	Fair	Previous top loss, lean to west, moss and lichen				1		8	8	8	8	Ν
43 3	476	Red alder	7	7	15	Poor	Failing to west				1		15	15	15	15	Ν
43 4	477	Red alder	7	7	15	Poor	Failing to west				1		15	15	15	15	Ν
43 5	478	Red alder	7	7	10	Fair	Self-corrected lean, lean to west				1		10	10	10	10	Ν
43 6	479	Red alder	10	10	14	Fair	Previous top loss, lean to west				1		14	14	14	14	N
43 7	480	Red alder	9	9	15	Poor	Failing to west				1		15	15	15	15	Ν
43 8	481	Red alder	9	9	10	Fair	Lean to west, supporting fallen red alder				1		10	10	10	10	Ν
43 9	482	Red alder	9	9	11	Fair	Previous top loss, lean to west				1		11	11	11	11	N
44 0	483	Haw-thorne	9	9	15	Fair	Self-corrected lean, lean to south, typical of species, OK in grove				1		15	15	15	15	Ν
44 1	484	Red alder	11	11	13	ОК	Supporting fallen cherry, self- corrected lean, typical of species					1	13	13	13	13	S
44 2	485	Red alder	14	14	12	Poor	Failing to east				1		12	12	12	12	Ν
44 3	486	Red alder	7	7	14	Fair	Previous top loss, lean to east, suppressed canopy				1		14	14	14	14	Ν

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	u - Lo
								F	Retain		Ren	nove		Radius	s in ft		ark ⊐ ⊐
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Ν	E	S	W	LM=Landmark S=Significant N=Non- significant
44 4	487	Red alder	13	13	15	Fair	Self-corrected lean, moss and lichen, dead spur				1		15	15	15	15	Ν
44 5	488	Red alder	9	9	9	Fair	Suppressed canopy, dead wood, moss and lichen, exposed roots				1		9	9	9	9	Ν
44 6	489	Red alder	8, 9	12	12	Poor	Co-dominant leaders with included bark x2 @ root crown, 9" trunk mostly dead, self-corrected lean, moss and lichen				1		12	12	12	12	N
44 7	490	Red alder	8	8	12	ОК	Asymmetric canopy to north, typical of species					1	12	12	12	12	S
44 8	491	Red alder	6	6	9	ОК	Asymmetric canopy to north, typical of species					1	9	9	9	9	S
44 9	492	Red alder	7	7	12	Fair	Vertical crack @ root crown up to 3' on north, asymmetric canopy to north				1		12	12	12	12	Ν
45 0	493	Red alder	11	11	15	ОК	Self-corrected lean, typical of species					1	15	15	15	15	S
45 1	494	Red alder	7	7	11	ОК	Undermined roots, typical of species					1	11	11	11	11	S
45 2	495	Red alder	6	6	12	Fair	Typical of species, undermined roots				1		12	12	12	12	Ν
45 3	496	Red alder	6	6	9	Fair	King in trunk @ 7' on west, typical of species				1		9	9	9	9	Ν
45 4	497	Red alder	7	7	8	Fair	Ivy @ root crown to 20', self- corrected lean to north, typical of species				1		8	8	8	8	Ν
45 5	498	Red alder	6	6	8	Poor	Wound @ 3' to 5' on south				1		8	8	8	8	Ν

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radius	s in ft		Y ≊
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non- significant
45 6	499	Red alder	12	12	12	Fair	Co-dominant leaders with included bark x2 @ 18', typical of species, lean to east, not self-corrected lean, leaning on container				1		12	12	12	12	N
45 7	500	Red alder	8	8	9	Poor	Multiple unhealed wounds @ 3' to 6' on north				1		9	9	9	9	Ν
45 8	501	Red alder	9	9	9	ОК	Serpentine trunk, typical of species, asymmetric canopy to north					1	9	9	9	9	S
45 9	502	Red alder	7	7	9	Fair	King @ 6', typical of species				1		9	9	9	9	Ν
46 0	503	Red alder	10	10	10	ОК	Typical of species					1	10	10	10	10	S
46 1	504	Red alder	8	8	8	ОК	Typical of species					1	8	8	8	8	S
46 2	505	Red alder	6	6	7	ОК	Asymmetric canopy to north, typical of species					1	7	7	7	7	S
46 3	506	Red alder	7	7	7	ОК	Typical of species, moss and lichen, dead wood, broken branches					1	7	7	7	7	S
46 4	507	Red alder	10	10	13	ОК	Typical of species, moss and lichen					1	13	13	13	13	S
46 5	508	Bitter cherry	6, 5, 4	9	7	Poor	Co-dominant leaders with included bark x3 @ root crown, mostly dead				1		7	7	7	7	N
46 6	509	Bitter cherry	14	14	11	Poor	Mostly dead				1		11	11	11	11	Ν
46 7	510	Pear	20	20	12	Poor	Mostly dead				1		12	12	12	12	Ν
46 8	511	Cascara	7, 6	9	8	Poor	Co-dominant leaders with included bark x2 @ root crown, mostly dead				1		8	8	8	8	N
46	512	Cascara	9	9	6	Poor	Fallen tree, branch rooted				1		6	6	6	6	Ν

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action			PR/LC			-uo
								F	Retain		Ren	nove		Radiu	s in ft		a_ Z ⊒ T
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	w	LM=Landmark S=Significant N=Non- significant
9																	
47 0	513	Red alder	10	10	10	Fair	Moss and lichen, wound @ 3' on west, self-corrected lean to east				1		10	10	10	10	Ν
47 1	514	Red alder	14	14	13	Poor	Previous top loss, moss and lichen, cavity @ 2' on west				1		13	13	13	13	Ν
47 2	515	Red alder	11	11	13	Poor	Failing to east				1		13	13	13	13	Ν
47 3	516	Red alder	13	13	12	Poor	Moss and lichen, cavity @ 1' on north, decay, lean to east				1		12	12	12	12	Ν
47 4	517	Red alder	15	15	14	Poor	Failing to south				1		14	14	14	14	Ν
47 5	518	Haw-thorne	8, 9, 9, 9, 8, 9	21.5	12	Fair	Co-dominant leaders with included bark x6 @ root crown, typical of species, dead wood, broken branches, cavity @ 3' on west, OK in grove				1		12	12	12	12	N
47 6	520	Red alder	7	7	9	Fair	Serpentine trunk, dead wood				1		9	9	9	9	Ν
47 7	521	Red alder	8	8	8	ОК	Moss and lichen, typical of species					1	8	8	8	8	S
47 8	522	Red alder	8	8	9	ОК	Typical of species					1	9	9	9	9	S
47 9	523	Red alder	7, 5	9	11	Fair	Co-dominant leaders with included bark x2 @ root crown, self-corrected lean, twisted trunks, asymmetric canopy to south				1		11	11	11	11	N
48 0	524	Red alder	7	7	10	ОК	Typical of species, asymmetric canopy to north					1	10	10	10	10	S
48 1	525	Red alder	6	6	8	ОК	Typical of species					1	8	8	8	8	S

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radiu	s in ft		, z ⊂ ⊓
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	w	LM=Landmark S=Significant N=Non- significant
48 2	526	Red alder	7	7	9	Fair	Serpentine trunk, low live crown ratio less than 10%, lean to north, self-corrected lean to north				1		9	9	9	9	N
48 3	527	Red alder	9	9	13	Fair	Asymmetric canopy to south, typical of species, self- corrected lean, lean to south				1		13	13	13	13	Ν
48 4	528	Red alder	6	6	6	Fair	Low live crown ratio less than 10%, lean to north, self- corrected lean				1		6	6	6	6	Ν
48 5	529	Red alder	6	6	8	Fair	Low live crown ratio less than 15%, OK in grove				1		8	8	8	8	Ν
48 6	530	Red alder	7	7	8	ОК	Typical of species, dead wood					1	8	8	8	8	S
48 7	531	Red alder	7	7	9	ОК	Self-corrected lean, moss and lichen, typical of species					1	9	9	9	9	S
48 8	532	Red alder	7	7	9	ОК	Moss and lichen, asymmetric canopy to north, self- corrected lean, typical of species					1	9	9	9	9	S
48 9	533	Haw-thorne	11	11	14	Poor	Mostly dead				1		14	14	14	14	N
49 0	534	Haw-thorne	9, 5	10.5	17	Poor	Co-dominant leaders with included bark x2 @ 3', typical of species, decay throughout				1		17	17	17	17	Ν
49 1	535	Holly	8	8	11	Fair	Co-dominant leaders with included bark x2 @ 8', woodpecker activity, nurse tree				1		11	11	11	11	N
49 2	536	Red alder	9	9	12	Poor	Multi topping, decay @ 9'		1				12	12	12	12	N
49 3	537	Red alder	8	8	17	Fair	Topped @ 9', typical of species		1				17	17	17	17	Ν

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Rem	nove	I	Radius	s in ft		ar z =
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Ζ	Е	S	W	LM=Landmark S=Significant N=Non- significant
49 4	538	Red alder	8, 2	8.5	18	Fair	Co-dominant leaders with included bark x2 @ root crown, topped @ 9'		1				18	18	18	18	N
49 5	540	Grand fir	21	21	14	Good	Dead wood, broken branches, dead twigs, typical of species	1					14	14	14	14	S
49 6	541	Red alder	9	9		Poor	Failed @ root crown		1								Ν
49 7	542	Bigleaf maple	23	23	15	Fair	Co-dominant leaders with included bark x2 @ 9', dead scaffold, OK in grove		1				15	15	15	15	N
49 8	544	Bigleaf maple	9, 10, 15, 13	24	22	Poor	Co-dominant leaders with included bark x4 @ root crown, failing @ root crown, OK in grove		1				22	22	22	22	N
49 9	548	Bigleaf maple	16, 14, 16	26.5	26	Poor	Co-dominant leaders with included bark x3 @ root crown, column of decay @ root crown up to 20', carpenter ants, woodpecker activity, asymmetric canopy to east, OK in grove		1				26	26	26	26	N
50 0	549	Western red cedar	18	18	10	ОК	Exposed roots, typical of species, horizontal crack @ 4' on north	1					10	10	10	10	S
50 1	550	Western red cedar	10	10	10	Poor	Cavity 10' to 16', cavity @ root crown up to 6' on south, carpenter ants		1				10	10	10	10	N
50 2	551	Bigleaf maple	8, 8.5	11.5	16	ОК	Co-dominant leaders with included bark x2 @ root crown, dead spur @ root crown, asymmetric canopy to north, typical of species	1					16	16	16	16	S

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove	I	Radius	s in ft		, z ⊂ ⊓
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Ζ	Е	S	W	LM=Landmark S=Significant N=Non- significant
50 3	553	Bigleaf maple	9	9	16	Poor	Exposed roots, failing to north @ root crown, asymmetric canopy to north		1				16	16	16	16	Ν
50 4	554	Bigleaf maple	8.5, 7	11	16	ОК	Co-dominant leaders with included bark x2 @ root crown, asymmetric canopy to north, undermined roots, asymmetric canopy to north, supporting tree #553, OK in grove	1					16	16	16	16	S
50 5	556	Bigleaf maple	13	13	16	Poor	Hypoxylon canker, carpenter ants, woodpecker activity, mostly dead		1				16	16	16	16	Ν
50 6	557	Western red cedar	20, 18	27	14	ОК	Nurse tree, co-dominant leaders with included bark x2 @ 4', carpenter ants, woodpecker activity, OK in grove	1					14	14	14	14	S
50 7	559	Bigleaf maple	8.5	8.5	11	ОК	Exposed roots, root gall, suppressed canopy, typical of species	1					11	11	11	11	S
50 8	560	Bigleaf maple	9, 16, 12	22	18	Fair	Exposed roots, co-dominant leaders with included bark x3 @ root crown, typical of species, dead wood, broken branches, decay @ root crown, carpenter ants, woodpecker activity, OK in grove		1				18	18	18	18	N
50 9	563	Bigleaf maple	19	19	16	Poor	Self-corrected lean to east, asymmetric canopy to east, ivy @ root crown to top of tree		1				16	16	16	16	N

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radius	s in ft		t ⊒ ar
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Ζ	Е	S	W	LM=Landmark S=Significant N=Non- significant
51 0	564	Bigleaf maple	12	12	18	Fair	Co-dominant leaders with included bark reduced to 1 @ 5', serpentine trunk, dead wood, scaffold, exposed roots		1				18	18	18	18	N
51 1	565	Cotton- wood	28	28	24	Poor	Ivy heavy to top		1				24	24	24	24	Ν
51 2	566	Bigleaf maple	9	9	16	Poor	Mostly dead		1				16	16	16	16	Ν
51 3	567	Cotton- wood	14	14	5	Poor	Ivy @ root crown to top of tree, mostly dead, low live crown ratio less than 5%		1				5	5	5	5	Ν
51 4	568	Bigleaf maple	18	18	12	Poor	Mostly dead, ivy to top of tree		1				12	12	12	12	Ν
51 5	569	Cotton- wood	16	16	16	Fair	Ivy @ root crown up to 50', low live crown ratio less than 5%		1				16	16	16	16	N
51 6	570	Bigleaf maple	30	30	10	Poor	Hypoxylon canker, mostly dead		1				10	10	10	10	Ν
51 7	571	Grand fir	22	22	14	ок	Asymmetric canopy to east, dead wood, broken branches, ivy @ root crown to top of tree, OK in grove	1					14	14	14	14	S
51 8	572	Grand fir	19	19	17	ОК	Asymmetric canopy to south, dead wood, broken branches, moss and lichen, OK in grove	1					17	17	17	17	S
51 9	573	Grand fir	13	13	16	ОК	Asymmetric canopy to south, dead wood, broken branches, OK in grove	1					16	16	16	16	S

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed .	Action		Т	PR/LC	D/CR	Z	u - uo
								F	Retain		Ren	nove		Radiu	s in ft		ark
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non- significant
52 0	574	Grand fir	19, 14	23.5	16	ОК	Dead wood, broken branches, ivy @ root crown up to 35', asymmetric canopy to southwest, low live crown ratio less than 10%, wisteria @ root crown up to 30', OK in grove if cleaned	1					16	16	16	16	S
52 1	576	Bigleaf maple	12	12	0	Poor	Dead		1				0	0	0	0	Ν
52 2	577	Bigleaf maple	14	14	17	Fair	Dead scaffolds, moss and lichen, asymmetric canopy to south		1				17	17	17	17	Ν
52 3	578	Bigleaf maple	9	9	8	Poor	Ivy @ root crown up to top, mostly dead		1				8	8	8	8	Ν
52 4	579	Bitter cherry	8	8	12	ОК	Serpentine trunk, non self- corrected lean to north, moss and lichen, suppressed canopy, previous top loss	1					12	12	12	12	S
52 5	580	Bigleaf maple	8	8	11	ОК	Suppressed canopy, moss and lichen, typical of species	1					11	11	11	11	S
52 6	581	Western red cedar	10	10	8	ОК	Exposed roots, decay in exposed roots, thin canopy, typical of species	1					8	8	8	8	S
52 7	582	Bigleaf maple	19	19	16	ОК	Column of decay @ root crown up to 12' on west, typical of species, moss and lichen, exposed roots, decay @ root crown	1					16	16	16	16	S
52 8	583	Bigleaf maple	26	26	16	ОК	Co-dominant leaders with included bark x2 @ 8', typical of species, dead scaffold, hanger	1					16	16	16	16	S

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed .	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radius	s in ft		, z ≃ ⊓
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Ν	E	S	W	LM=Landmark S=Significant N=Non- significant
52 9	584	Bigleaf maple	14	14	14	ОК	Serpentine trunk, previous top loss, dead wood, typical of species, moss and lichen	1					14	14	14	14	S
53 0	585	Bigleaf maple	29, 10	30.5	18	ок	Co-dominant leaders with included bark x2 @ root crown, dead scaffold, hanger, OK in grove	1					18	18	18	18	LM
53 1	588	Bigleaf maple	13	13	15	ок	Co-dominant leaders with included bark x2 @ root crown up to 1', dead spur, serpentine trunk, typical of species, OK in grove	1					15	15	15	15	S
53 2	589	Bigleaf maple	14, 12, 14	23	15	Poor	Co-dominant leaders with included bark x3 @ 4', multi large galls, ivy @ root crown up to 50', dead scaffold, Hypoxylon canker		1				15	15	15	15	N
53 3	590	Bigleaf maple	11, 12	16.5	16	Fair	Co-dominant leaders with included bark x2 @ 3', Hypoxylon canker, moss and lichen, ivy @ root crown up to 25', OK in grove		1				16	16	16	16	N
53 4	591	Western red cedar	29	29	16	ОК	Typical of species, exposed roots, column of decay @ root crown @ 3' on south, woodpecker activity, carpenter ants, typical of species	1					16	16	16	16	S
53 5	592	Bigleaf maple	4, 9, 5, 16	19.5	22	Poor	Co-dominant leaders with included bark x4 @ root crown, healed conk, failing to north		1				22	22	22	22	N

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radius	s in ft		Ϋ́Ξ
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non-
53 6	593	Bigleaf maple	17	17	17	ОК	Exposed roots, undermined roots, moss and lichen, low live crown ratio less than 20%, typical of species	1					17	17	17	17	S
53 7	594	Western red cedar	33	33	15	ок	Self-corrected lean to south, undermined roots, woodpecker activity, dead wood, broken branches, typical of species	1					15	15	15	15	LM
53 8	595	Bigleaf maple	9	9	10	ОК	Low live crown ratio less than 10%, dead wood, dead scaffold	1					10	10	10	10	S
53 9	596	Bigleaf maple	20	20	26	ОК	Exposed roots, undermined roots, dead scaffolds, typical of species	1					26	26	26	26	S
54 0	597	Bigleaf maple	26	26	24	ОК	Moss and lichen, dead wood, dead scaffolds, typical of species	1					24	24	24	24	S
54 1	598	Bigleaf maple	15, 16, 14	26	22	ОК	Co-dominant leaders with included bark x3 @ root crown, Hypoxylon canker, typical of species	1					22	22	22	22	S
54 2	600	Bigleaf maple	17	17	20	Poor	Cavity @ root crown up to 6' on south, moss and lichen		1				20	20	20	20	Ν
54 3	601	Bigleaf maple	16	16	21	Poor	Cavity @ root crown up to 6', carpenter ants		1				21	21	21	21	Ν
54 4	602	Bigleaf maple	14	14	16	ОК	Typical of species, dead scaffolds, hanger	1					16	16	16	16	S
54 5	603	Bigleaf maple	9	9	10	Poor	Cavity 3' to 6' on north		1				10	10	10	10	Ν
54 6	604	Bigleaf maple	17	17	16	ОК	Co-dominant leaders with included bark x2 @ 6', exposed roots, dead wood, typical of species	1					16	16	16	16	S

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed .	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radiu	s in ft		jar A
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	w	LM=Landmark S=Significant N=Non- significant
54 7	605	Bigleaf maple	18, 16	24	18	Poor	Co-dominant leaders with included bark x2 @ root crown, nurse tree, filled with decay		1				18	18	18	18	N
54 8	606	Bigleaf maple	17, 26, 17, 15, 14	41	28	ок	Co-dominant leaders with included bark x5 @ 4', moss and lichen, exposed roots, Hypoxylon canker, dead wood, dead scaffold, dead wood	1					28	28	28	28	LM
54 9	607	Bigleaf maple	17	17	16	ОК	Moss and lichen, dead scaffold, dead wood, typical of species, prune dead wood	1					16	16	16	16	S
55 0	608	Douglas fir	24	24	16	ок	Serpentine trunk, previous top loss, dead wood, broken branches, suppressed canopy, low live crown ratio less than 20%, OK in grove	1					16	16	16	16	S
55 1	609	Hemlock	9	9		Poor	Dead		1								Ν
55 2	610	Western red cedar	25.5	25.5	10	Good	Exposed roots, carpenter ants, typical of species	1					10	10	10	10	S
55 3	611	Bigleaf maple	32	32	20	ок	Dead scaffold, co-dominant leaders with included bark x2 @ 30' reduced to 1', typical of species, asymmetric canopy to north	1					20	20	20	20	LM
55 4	612	Western red cedar	16	16	10	Good	Typical of species	1					10	10	10	10	S
55 5	613	Western red cedar	10	10	13	ОК	Asymmetric canopy to east, suppressed canopy, dead wood, typical of species	1					13	13	13	13	S
55 6	614	Bigleaf maple	16.5	16.5	20	ОК	Typical of species	1					20	20	20	20	S

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radiu	s in ft		Ϋ́Ξ
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	ш	S	w	LM=Landmark S=Significant N=Non- significant
55 7	615	Douglas fir	42	42	20	ОК	Abnormal bark, popping bark, dead wood, broken branches, calloused wound @ 4' on northwest	1					20	20	20	20	LM
55 8	616	Hemlock	10	10	10	ОК	Typical of species, dead wood, suppressed canopy	1					10	10	10	10	S
55 9	617	Douglas fir	44	44	18	Fair	Typical of species, dead wood, broken branches, cannot see tree top, popping bark, low live crown ratio less than 20%, previous top loss		1				18	18	18	18	N
56 0	618	Hemlock	29	29	19	ОК	Low live crown ratio less than 30%, dead wood, broken branches, dead twigs, typical of species, undermined roots, exposed roots	1					19	19	19	19	S
56 1	619	Western red cedar	11	11	11	ОК	Typical of species, self- corrected lean to north	1					11	11	11	11	S
56 2	620	Western red cedar	12	12	12	ОК	Self-corrected lean to north, asymmetric canopy to north, typical of species	1					12	12	12	12	S
56 3	621	Bigleaf maple	17	17	14	ОК	Self-corrected lean to west, 25' from trunk to self- corrected lean	1					14	14	14	14	S
56 4	622	Hemlock	9, 11, 7	16	13	ОК	Co-dominant leaders with included bark x3 @ root crown, self-corrected lean, OK in grove	1					13	13	13	13	S
56 5	623	Bigleaf maple	63, 29	69.5	24	ок	Co-dominant leaders with included bark x2 @ root crown, typical of species, exposed roots, den under roots 2'x2'	1					24	24	24	24	LM

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed /	Action		Т	PR/LC	D/CR	Z	on-
								F	Retain		Rem	nove	I	Radius	s in ft		ark Z
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non- significant
56 6	624	Western red cedar	14	14		Poor	Dead		1								Ν
56 7	625	Douglas fir	16	16	10	Fair	Serpentine trunk, dead wood, broken branches, low live crown ratio less than 5%, OK in grove		1				10	10	10	10	N
56 8	626	Douglas fir	22	22	10	Poor	Abnormal bark, shedding bark, popping bark, free flowing sap, bore beetle, dead wood, laminated root rot?		1				10	10	10	10	Ν
56 9	627	Bigleaf maple	13	13	16	Fair	Exposed roots, undermined roots, dead wood, dead scaffold, asymmetric canopy to south		1				16	16	16	16	N
57 0	628	Western red cedar	38, 17	41.5	12	Poor	Co-dominant leaders with included bark x2 @ root crown, large cavity @ root crown up to 12', carpenter ants, woodpecker activity, dead top		1				12	12	12	12	N
57 1	629	Bigleaf maple	21, 31, 16	40.5	28	ОК	Co-dominant leaders with included bark x3 @ root crown, moss and lichen, typical of species, dead scaffold, OK with pruning	1*					22	28	28	28	LM
57 2	630	Western red cedar	43	43	14	Fair	Failing to north, soil failure, maybe above toe of slope		1				14	14	14	14	Ν
57 3	631	Western red cedar	36	36	12	ОК	Typical of species	1					12	12	12	12	LM
57 4	632	Bigleaf maple	10	10	13	ОК	Cavity @ 1' to 4' on north, typical of species	1					13	13	13	13	S

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#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non- significant
57 5	633	Red alder	18	18	18	Fair	Lean to north, typical of species, dead scaffold, dead wood, moss and lichen, lean to north				1		18	18	18	18	N
57 6	634	Douglas fir	38	38	20	Fair	Abnormal bark, shedding bark, carpenter ants, self- corrected lean to east, woodpecker activity, bore beetle, OK in grove				1		20	20	20	20	N
57 7	635	Bigleaf maple	25, 22	33.5	29	Good	Co-dominant leaders with included bark x2 @ root crown, typical of species, dead scaffold, dead wood	1					29	29	29	29	LM
57 8	637	Bigleaf maple	38	38	28	ок	Dead scaffold, typical of species, OK with pruning	1					28	28	28	28	LM
57 9	638	Bigleaf maple	33	33	22	Fair	Previous top loss @ 12', dead scaffold, dead wood, galls, exposed roots, undermined roots		1				22	22	22	22	N
58 0	639	Bigleaf maple	26	26	30	Fair	Decay in scaffolds, cavity 20' to 26, OK in grove		1				30	30	30	30	Ν
58 1	640	Bigleaf maple	36	36	30	ок	Lean to west, moss and lichen, exposed roots, dead scaffold, dead wood, typical of species	1					30	30	30	30	LM
58 2	641	Hemlock	14	14	14	Poor	Lost top half				1		14	14	14	14	Ν
58 3	642	Bigleaf maple	26	26	18	Fair	Column of decay @ root crown up to 15' on west, numerous failures				1		18	18	18	18	N
58 4	643	Bigleaf maple	12	12	16	Poor	Cavity @ root crown up to 9', carpenter ants, woodpecker activity				1		16	16	16	16	Ν

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1	2	3	4	5	6	7	8			9				1	0		11
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#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	Е	S	W	LM=Landmark S=Significant N=Non- significant
58 5	644	Bigleaf maple	15, 18	23.5	16	ок	Co-dominant leaders with included bark x2 @ root crown, typical of species, moss and lichen, dead wood	1					16	16	16	16	S
58 6	646	Hemlock	42	42	21	Poor	Abnormal bark, suppressed canopy, popping bark, carpenter ants, woodpecker activity, exposed roots, leaning to east		1				21	21	21	21	N
58 7	647	Western red cedar	18	18	8	Poor	Failing to east, on top of #646		1				8	8	8	8	Ν
58 8	648	Hemlock	10	10	4	Poor	Mostly dead, Phaeolus schweinitzii @ root crown		1				4	4	4	4	Ν
58 9	649	Hemlock	19	19	14	Fair	Free flowing sap from crack up to 7' on south, abnormal bark, popping bark, Hypoxylon canker, root crown = 18" from cubical butt rot		1				14	14	14	14	N
59 0	650	Douglas fir	16	16	8	Poor	Large scraping wound root crown to 6' on west, no taper, suppressed canopy		1				8	8	8	8	Ν
59 1	651	Bigleaf maple	18	18	22	ок	Co-dominant leaders with included bark x2 @ 11', asymmetric canopy to west, typical of species	1					22	22	22	22	S
59 2	652	Douglas fir	39	39	15	ок	Tissue dieback, low live crown ratio less than 20%, undermined roots, shedding bark, carpenter ants, typical of species	1					15	15	15	15	LM
59 3	653	Western red cedar	9.5	9.5	9	ОК	Typical of species, suppressed canopy, nurse tree, exposed roots	1					9	9	9	9	S

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1	2	3	4	5	6	7	8			9				1	0		11
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#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Ν	Е	S	W	LM=Landmark S=Significant N=Non- significant
59 4	654	Hemlock	11	11	10	ОК	Dead wood, broken branches, self-corrected lean to east, co-dominant leaders with included bark x2 @ 15'	1					10	10	10	10	S
59 5	655	Western red cedar	28	28	10	ОК	Previous top loss, dead wood, exposed roots, undermined roots	1					10	10	10	10	S
59 6	656	Hemlock	9	9	8	ОК	Self-corrected lean to east, previous top loss, exposed roots, typical of species	1					8	8	8	8	S
59 7	657	Bigleaf maple	30	30	30	ОК	Cavity 5' to 14' on south, typical of species	1					30	30	30	30	LM
59 8	658	Douglas fir	14	14	16	ОК	Abnormal bark, popping bark, calloused wound 5' on west, dead wood, broken branches, vertical crack 5' to 9' on east, chlorotic tissue	1					16	16	16	16	S
59 9	659	Douglas fir	41	41	16	Poor	Large calloused wound @ root crown @ 3' on south, popping bark, abnormal bark, conks		1				16	16	16	16	N
60 0	660	Hemlock	20	20	12	ОК	1' away from failed Hemlock, typical of species, asymmetric canopy to north	1					12	12	12	12	S
60 1	661	Hemlock	16	16	16	Fair	Horizontal crack 4' on south, OK in grove		1				16	16	16	16	Ν
60 2	662	Western red cedar	11	11	8	ОК	Typical of species	1					8	8	8	8	S
60 3	663	Western red cedar	9	9	12	ОК	Typical of species	1					12	12	12	12	S
60 4	664	Bigleaf maple	21	21	24	Poor	Decay @ root crown, failing to north, mostly dead		1				24	24	24	24	Ν

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#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non- significant
60 5	665	Bigleaf maple	26, 22	34	26	ок	Co-dominant leaders with included bark x2 @ root crown, exposed roots, undermined roots, previous top loss, dead scaffold, conk @ root crown, OK in grove	1					26	26	26	26	LM
60 6	667	Western red cedar	19	19	10	Poor	Failing to north				1		10	10	10	10	Ν
60 7	668	Bigleaf maple	34	34	27	ок	Exposed roots, undermined roots, cavity @ root crown up to 15' on east, typical of species, OK in grove	1					27	27	27	27	LM
60 8	669	Hemlock	8	8	9	ОК	Hypoxylon canker, co- dominant leaders with included bark x2 @ 6', typical of species	1					9	9	9	9	S
60 9	670	Western red cedar	8	8	11	ОК	Typical of species, suppressed canopy	1					11	11	11	11	S
61 0	671	Douglas fir	26	26	16	ок	Calloused wound 4' on west, carpenter ants bark only, abnormal bark, popping bark, previous top loss, low live crown ratio less than 25%	1					16	16	16	16	S
61 1	672	Bigleaf maple	30	30	28	ок	Moss and lichen, typical of species, dead wood, dead scaffold, OK if pruned	1					28	28	28	28	LM
61 2	673	Hemlock	10	10	10	Fair	Previous top loss, suppressed canopy, dead wood, OK in grove				1		10	10	10	10	N
61 3	674	Bigleaf maple	13, 15	20	15	ОК	Co-dominant leaders with included bark x2 @ 3', previous top loss, strong laterals, typical of species	1					15	15	15	15	S

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
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#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non-
61 4	675	Hemlock	11	11	9	ок	Hanger, dead wood, typical of species	1					9	9	9	9	S
61 5	676	Douglas fir	36	36	16	ок	Free flowing sap, abnormal bark, shedding bark, carpenter ants bark only, calloused wound @ 3' on west, dead wood, broken branches, previous top loss, elongated branches, raccoon poop, typical of species	1					16	16	16	16	LM
61 6	677	Bigleaf maple	7	7	12	ОК	Suppressed canopy, typical of species	1					12	12	12	12	S
61 7	678	Bigleaf maple	20	20	15	Poor	Cavity @ root crown up to 7', carpenter ants, woodpecker activity				1		15	15	15	15	Ν
61 8	679	Bigleaf maple	13	13	18	ок	Suppressed canopy, dead wood, low live crown ratio less than 20%, previous top loss, OK in grove	1					18	18	18	18	S
61 9	680	Bigleaf maple	16	16	19	ОК	Previous top loss, asymmetric canopy to west, moss and lichen, typical of species	1					19	19	19	19	S
62 0	681	Hemlock	12	12	12	Fair	Self-corrected lean to north, exposed roots, decay @ root crown, dead wood, broken branches				1		12	12	12	12	N
62 1	682	Bigleaf maple	18, 20	27	21	ОК	Co-dominant leaders with included bark x2 @ root crown, nurse tree, cavity 40' on south, dead wood, broken branches, OK in grove	1					21	21	21	21	S

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1	2	3	4	5	6	7	8			9				1	0		11
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								F	Retain		Ren	nove		Radiu	s in ft		, z z
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Ν	Е	S	W	LM=Landmark S=Significant N=Non- significant
62 2	684	Douglas fir	32	32	10	Poor	Abnormal bark, shedding bark, popping bark, carpenter ants, cav @ root crown to 9' south, low live crown ratio < 10%		1				10	10	10	10	N
62 3	685	Bigleaf maple	21	21	17	ок	Typical of species, asymmetric canopy to south, exposed roots, undermined roots	1					17	17	17	17	S
62 4	686	Douglas fir	10	10	16	Poor	Previous top loss, nurse tree, abnormal bark, shedding bark, carpenter ants, mostly dead		1				16	16	16	16	N
62 5	687	Bigleaf maple	14	14	15	ОК	Asymmetric canopy to south, moss and lichen, typical of species	1					15	15	15	15	S
62 6	688	Bigleaf maple	15	15	16	Fair	Lean to south, dead wood, dead scaffold, moss and lichen, typical of species OK in grove		1				16	16	16	16	Ν
62 7	689	Douglas fir	12	12	12	Poor	Abnormal bark, shedding bark, carpenter ants, wound @ 4' on south, dead wood, broken branches, laminated root rot?		1				12	12	12	12	N
62 8	690	Haw-thorne	12, 11, 7	17.5	16	Fair	Co-dominant leaders with included bark x3 @ root crown, typical of species, moss and lichen, dead wood		1				16	16	16	16	N
62 9	691	Douglas fir	18	18	17	ОК	Ivy @ root crown up to 25', dead wood, broken branches, dead twigs, typical of species	1					17	17	17	17	S

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1	2	3	4	5	6	7	8			9				1	0		11
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	Tree			Adi.	Drip-			F	Retain			nove	I	Radius	s in ft		dmark t N=N ant
#	Tag #	Species ID	DBH (in)	DBH (in)	line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non- significant
63 0	692	Douglas fir	14	14	15	ОК	Asymmetric canopy to south, previous ivy @ root crown up to 20', dead wood, broken branches, dead twigs	1					15	15	15	15	S
63 1	693	Douglas fir	13	13	15	ОК	Previous ivy at @ root crown up to 30', asymmetric canopy to south, typical of species, dead wood, broken branches	1					15	15	15	15	S
63 2	694	Douglas fir	18	18	15	ОК	Ivy @ root crown up to 20', dead wood, broken branches, typical of species	1					15	15	15	15	S
63 3	695	Red alder	7, 7	10	15	ок	Co-dominant leaders with included bark x2 @ root crown, failing to south, moss and lichen, OK in grove	1					15	15	15	15	S
63 4	697	Haw-thorne	7	7	14	ОК	Dead wood, broken branches, moss and lichen, suppressed canopy	1					14	14	14	14	S
63 5	698	Bigleaf maple	12	12	17	ОК	Asymmetric canopy to south, suppressed canopy, exposed roots, undermined roots, lean to south, OK in grove	1					17	17	17	17	S
63 6	699	Bigleaf maple	27	27	18	Fair	Decay @ root crown, moss and lichen, dead scaffold, dead wood, typical of species		1				18	18	18	18	Ν
63 7	700	Bigleaf maple	14	14	6	Poor	Mostly dead		1				6	6	6	6	Ν
63 8	701	Western red cedar	8	8	7	ОК	Typical of species	1					7	7	7	7	S
63 9	702	Western red cedar	18	18	10	ОК	Self-corrected lean to east, typical of species, undermined roots	1					10	10	10	10	S
64 0	703	Bigleaf maple	20	20		Poor	Mostly dead, pileated woodpecker		1								Ν

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1	2	3	4	5	6	7	8			9				1	0		11
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#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non- significant
64 1	704	Bigleaf maple	14	14	0	Poor	Dead		1				0	0	0	0	Ν
64 2	705	Bigleaf maple	7, 10	12		Poor	Co-dominant leaders with included bark x2 @ 1', mostly dead		1								Ν
64 3	706	Bigleaf maple	20, 17, 15	30	24	ОК	Co-dominant leaders with included bark x3 @ root crown, dead scaffold, dead wood, lean to south, OK in grove	1					24	24	24	24	LM
64 4	707	Bigleaf maple	43	20	27	ОК	Failing from root crown to south, self-corrected lean	1					27	27	27	27	S
64 5	708	Hemlock	16	16	14	ОК	Exposed roots, dead wood, broken branches, suppressed canopy, exposed roots, undermined roots, typical of species	1					14	14	14	14	S
64 6	709	Bigleaf maple	13	13	19	ОК	Typical of species, dead wood, broken branches, undermined roots	1					19	19	19	19	S
64 7	710	Douglas fir	13	13	12	ОК	Previous top loss, failing to west, OK in grove	1					12	12	12	12	S
64 8	711	Bigleaf maple	17, 14, 11, 14, 9, 13	32.5	19	ок	Co-dominant leaders with included bark x6 @ root crown, typical of species, decay @ center, cavity on north, horizontal crack on north, moss and lichen, OK in grove	1					19	19	19	19	LM
64 9	712	Haw-thorne	7	7	10	Poor	Large cavity @ root crown				1		10	10	10	10	Ν

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									Prop	osed	Action		Т	PR/LC	D/CR	Z	uo - uo
								F	Retain		Ren	nove		Radius	s in ft		ar Z
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non- significant
65 0	713	Bigleaf maple	19	19	20	ОК	Moss and lichen, dead wood, asymmetric canopy to west, cavity @ root crown up to 3' on east, undermined roots, typical of species	1					20	20	20	20	S
65 1	714	Bigleaf maple	14	14	19	ОК	Moss and lichen, asymmetric canopy to east, dead wood, typical of species	1					19	19	19	19	S
65 2	715	Bigleaf maple	25	25	17	ОК	Moss and lichen, exposed roots, dead scaffold, dead wood, typical of species	1					17	17	17	17	S
65 3	716	Bigleaf maple	12, 11	16	17	ок	Co-dominant leaders with included bark x2 @ root crown, typical of species, moss and lichen, dead wood	1					17	17	17	17	S
65 4	717	Haw-thorne	9	9	18	Poor	Failing to south				1		18	18	18	18	Ν
65 5	718	Haw- thorne	14, 15, 16, 14, 9	31	10	Poor	Co-dominant leaders with included bark x5 @ root crown, conks, broken trunks, carpenter ants, woodpecker activity				1		10	10	10	10	N
65 6	723	Red alder	10	10	11	ОК	Typical of species					1	11	11	11	11	S
65 7	724	Cascara	7	7	9	Fair	Undermined roots, moss and lichen, suppressed canopy				1		9	9	9	9	N
65 8	725	Bigleaf maple	21	21	27	ОК	Moss and lichen, dead wood, broken branches, typical of species	1					27	27	27	27	S
65 9	726	Bigleaf maple	10, 10, 12, 12, 7, 6	24	19	ОК	Co-dominant leaders with included bark x6 @ root crown, trunk 7 & 6 are dead, dead wood, broken branches, dead scaffold, OK in grove	1					19	19	19	19	S

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									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
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#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non- significant
66 0	728	Haw- thorne	17, 17, 19, 13, 10, 13	37	28	Poor	Large cavity on west		1				28	28	28	28	N
66 1	729	Cascara	16	16	12	Poor	Co-dominant leaders with included bark x6 @ root crown, failing from root crown in every direction, carpenter ants, woodpecker activity		1				12	12	12	12	N
66 2	735	Cascara	9, 10, 10, 12, 14, 17, 18	35	18	Poor	Co-dominant leaders with included bark x7 @ root crown, all failed @ root crown, carpenter ants, woodpecker activity, broken trunks		1				18	18	18	18	N
66 3	737	Red alder	15	15	0	Poor	Dead		1				0	0	0	0	Ν
66 4	738	Western red cedar	18, 11	21	13	ОК	Co-dominant leaders with included bark x2 @ 3', typical of species, exposed roots	1					13	13	13	13	S
66 5	739	Western red cedar	29	29	16	ОК	Typical of species, asymmetric canopy to south, exposed roots, typical of species	1					16	16	16	16	S
66 6	740	Red alder	9	9	9	Poor	Failing to south		1				9	9	9	9	Ν
66 7	741	Haw-thorne	10	10	14	Fair	Self-corrected lean to west, asymmetric canopy to south, dead wood, broken branches, suppressed canopy		1				14	14	14	14	N
66 8	742	Haw-thorne	9	9	10	ОК	Moss and lichen, dead wood, broken branches, OK in grove	1					10	10	10	10	S

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed .	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove	I	Radiu	s in ft	•	ark ≥ ⊐
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non- significant
66 9	743	Haw-thorne	7, 6, 3, 3	10	14	Poor	Co-dominant leaders with included bark x4 @ root crown, moss and lichen, asymmetric canopy to south		1				14	14	14	14	N
67 0	744	Haw-thorne	5, 5, 5, 5, 5, 5, 5, 5	14	17	ОК	Co-dominant leaders with included bark x8 @ root crown, typical of species, moss and lichen, dead wood, broken branches	1					17	17	17	17	S
67 1	745	Bitter cherry	7	7	9	ОК	Typical of species, moss and lichen, dead wood	1					9	9	9	9	S
67 2	746	Cascara	8	8	4	Poor	Mostly dead		1				4	4	4	4	Ν
67 3	747	Bigleaf maple	23, 9, 6	25.5	21	Poor	Co-dominant leaders with included bark x3 @ root crown, moss and lichen, dead scaffold, dead wood, carpenter ants, woodpecker activity, Hypoxylon canker				1		21	21	21	21	N
67 4	750	Bigleaf maple	14, 15, 17	27	14	Poor	Co-dominant leaders with included bark x3 @ root crown, large cavity of decay 6' north, mostly dead				1		14	14	14	14	N
67 5	753	Bigleaf maple	10, 8	13	6	Poor	Co-dominant leaders with included bark x2 @ root crown, mostly dead				1		6	6	6	6	Ν
67 6	754	Douglas fir	15	15	14	ок	Self-corrected lean, dead wood, broken branches, dead twigs, typical of species, OK in grove	1					14	14	14	14	S
67 7	755	Douglas fir	12	12	15	ОК	Dead wood, broken branches, bush top, asymmetric canopy to south, typical of species	1					15	15	15	15	S

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1	2	3	4	5	6	7	8			9				1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	-uo
								F	Retain		Ren	nove		Radiu	s in ft		X ≥
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	N	E	S	W	LM=Landmark S=Significant N=Non- significant
67 8	756	Douglas fir	12	12	15	ОК	Dead wood, broken branches, dead twigs, asymmetric canopy to south, typical of species	1					15	15	15	15	S
67 9	757	Douglas fir	11	11	12	ОК	Asymmetric canopy to south, dead wood, dead twigs, typical of species	1					12	12	12	12	S
68 0	758	Douglas fir	16	16	16	ОК	Exposed roots, moss and lichen, asymmetric canopy to south, dead wood, dead twigs, horizontal crack @ 5', OK in grove	1					16	16	16	16	S
68 1	759	Haw-thorne	8	8	14	ОК	Typical of species, dead wood, broken branches, asymmetric canopy to west	1					14	14	14	14	S
68 2	760	Haw-thorne	10, 7	12	9	ОК	Co-dominant leaders with included bark x2 @ 3', typical of species, moss and lichen	1					9	9	9	9	S
68 3	761	Haw-thorne	6, 4	7	9	ОК	Co-dominant leaders with included bark x2 @ 3', moss and lichen, typical of species, dead wood, OK with pruning	1					9	9	9	9	S
68 4	762	Haw-thorne	7	7	13	Fair	Typical of species, moss and lichen, dead wood,suppressed canopy				1		13	13	13	13	Ν
68 5	763	Haw-thorne	8,3	9	15	Fair	Typical of species, co- dominant leaders with included bark x2 @ root crown, lean to east				1		15	15	15	15	N
68 6	764	Bigleaf maple	9, 9, 6, 5	15	14	ОК	Co-dominant leaders with included bark x4 @ 2', asymmetric canopy to northeast, suppressed canopy					1	14	14	14	14	S

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1	2	3	4	5	6	7	8		9					1	0		11
									Prop	osed	Action		Т	PR/LC	D/CR	Z	
								F	Retain		Ren	nove		Radius	s in ft		, ⊐ ar
	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Ζ	Е	S	W	LM=Landmark S=Significant N=Non- significant
68 7	765	Haw-thorne	8, 7	10.5	13	Poor	Co-dominant leaders with included bark x2 @ 3', failing to east				1		13	13	13	13	Ν
68 8	766	Bitter cherry	8	8	9	Fair	Decay @ root crown, dead wood, broken branches				1		9	9	9	9	Ν
68 9	767	Bitter cherry	9	9	11	Fair	Co-dominant leaders with included bark x2 @ 5', dead wood, broken branches, asymmetric canopy to north				1		11	11	11	11	N
69 0	768	Bitter cherry	9	9	6	Poor	Mostly dead				1		6	6	6	6	Ν
69 1	769	Bitter cherry	7	7	6	Poor	Mostly dead				1		6	6	6	6	Ν
69 2	770	Haw-thorne	7, 5, 4, 4, 6, 4	12.5	16	Fair	Co-dominant leaders with included bark x6 @ root crown, typical of species, decay @ root crown				1		16	16	16	16	N
69 3	771	Bitter cherry	9	9	4	Poor	Dead scaffold, dead wood, dead top				1		4	4	4	4	Ν
69 4	772	Hemlock	15	15	10	Fair	Previous topping @ 15', exposed roots, lean to west				1		10	10	10	10	Ν
69 5	773	Bigleaf maple	6	6	9	ОК	Typical of species					1	9	9	9	9	S
69 6	774	Haw-thorne	13, 10, 6, 8, 9	21	18	Fair	Co-dominant leaders with included bark x5 @ root crown, typical of species, moss and lichen, decay @ root crown				1		18	18	18	18	N
69 7	775	Bigleaf maple	6	6	8	Fair	Moss and lichen, previous top loss, dead top				1		8	8	8	8	Ν
69 8	776	Haw-thorne	8, 3, 6	10.5	10	Poor	Co-dominant leaders with included bark x3 @ root crown				1		10	10	10	10	Ν

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1	2	3	4	5	6	7	8	9					1	0		11	
									Prop	osed .	Action		Т	PR/LC	D/CR	Z	c on-
								F	Retain		Rem	nove		Radius	s in ft		ark
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Ν	E	S	W	LM=Landmark S=Significant N=Non- significant
69 9	777	Bigleaf maple	12	12	18	ОК	Asymmetric canopy to northwest, moss and lichen, typical of species					1	18	18	18	18	S
70 0	778	Bigleaf maple	12	12	18	ОК	Asymmetric canopy to west, typical of species					1	18	18	18	18	S
70 1	779	Bigleaf maple	6	6	15	ОК	Suppressed canopy, lean to west					1	15	15	15	15	S
70 2	780	Bigleaf maple	7	7	18	ОК	Asymmetric canopy to west, typical of species					1	18	18	18	18	S
70 3	781	Bigleaf maple	13	13	18	ОК	Lean to west, asymmetric canopy to west, moss and lichen, typical of species					1	18	18	18	18	S
70 4	782	Douglas fir	32	32	14	ок	Free flowing sap, wound @ 3' on north, girdled with barbed wire, abnormal bark, shedding bark, carpenter ants bark only, slight bulge @ 4', broken branches, dead wood, popping bark	1					14	14	14	14	LM
70 5	783	Douglas fir	30	30	16	ОК	Serpentine trunk, hanger, abnormal bark, shedding bark, carpenter ants bark only, previous top loss, elongated branch, low live crown ratio - 25%	1					16	16	16	16	LM
70 6	784	Bigleaf maple	7	7	10	Fair	Suppressed canopy, previous top loss, low live crown ratio - 10%, asymmetric canopy to west, OK in grove		1				10	10	10	10	N
70 7	785	Bigleaf maple	22	22	24	Poor	Failing to north, cavity @ root crown up to 15' on west				1		24	24	24	24	Ν

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1	2	3	4	5	6	7	8			9				1	0		11
									·		Action			PR/LC	,		ark =Non- t
				Retain Remove	Radius in ft.				⊥ <u>a</u>								
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip- line radiu s (ft)	Health	Defects/Comments	Retained	Buffer	Impacted	Non- viable	Remove for improvements	Ν	Е	S	W	LM=Landmark S=Significant N=No significant
70 8	786	Douglas fir	38	38	17	ок	Large calloused wound @ root crown up to 8' on south, free flowing sap, red ring rot, column of decay @ root crown up to 12' on south, previous top loss, elongated branches, OK in grove						17	17	17	17	LM
70 9	787	Red alder	10, 4	11	14	Poor	Co-dominant leaders with included bark x2 @ 4', failing to west				1		14	14	14	14	Ν
71 0	788	Haw-thorne	8, 6, 6	11.5	16	Fair	Co-dominant leaders with included bark x3 @ 4', typical of species, lean to west, moss and lichen, OK in grove				1		16	16	16	16	N
* Tre	* Trees impcated by roadways are not counted as Impacted							13 2	68	0	34 8	162					

RZC 21.72.060 C.3

* Trees impacted by utilities **Reduced dripline in direction of utilities

Tree Matrix Calculations:

	Propose	d Action and Brief	Definition	
Tree Type	Removal	Impacted	Retained	Total
	Number of removed landmark trees	Number of impacted landmark trees	Number of retained landmark	Total Landmark Trees
	7	1	26*	34
Landmark (>30" DBH)	% of Removed Landmark Trees of All Landmark Trees	% of impacted Landmark Trees of all Landmark Trees	% of Retained Landmark Trees of All Landmark Trees	% Landmark Trees of All Trees
	7/34=20%	1/34= 3%	26/34= 77%	34/294=12 %
	Number of removed significant trees	% Impacted of all significant trees	Number of Retained Significant Trees	Total Significant Trees
Significant	155	0	105	260
(6" - 30")	% Significant removed of all significant trees	% impacted of all significant trees	% retained of all significant trees	% significant trees of all trees
	155/260=60%	0/260 = 0%	105/260 = 40%	260/294=88%
	Number of Landmark + Significant removed trees	Number of Landmark + significant impacted	Number of Landmark + significant retained	Total Number of ALL Trees
Totals	162	1	131	294
	% removed of all trees	% impacted of all Trees	% Retained of all Trees	
	162/294 = 55%	1/294=.3%	131/294 = 45%	100%

*RZC 21.72 Trees impacted by utilities are counted as retained

Potentially Impacted Offsite Trees:

None

Mitigation:

Per the RZC 21.72 all Landmark Trees (DBH > 30") are to be replaced at a 3:1 ratio; all Significant trees removed are to be replaced at a 1:1 ratio. Landmark trees impacted by site improvements excluding utility and roadway access are counted as removed and mitigated for.

Mitigation											
Replacement Quota	Number of Removed Trees	Number of Replacement Trees	Total Number of Replacement Trees								
Removed Landmark (3:1)	7	21	21								
Impacted Landmark (#629)	1	3	3								
Removed Significant (1:1)	155	155	155								
Total # of Replacement Trees			179								

RZC 21.72 code specifies that the replacement trees meet or exceed the American Nursery and Landscape Standard and that the minimum sizes for replacement be:

- 2.5" caliper at breast height for a deciduous tree
- 6-8' tall for an evergreen replacement

Discussion:

Updated Tree Density Calculation	
Total number of trees onsite	710
Total number of significant trees	294
Required 35% Tree retention	103
Total number of retained trees proposed	132
Number of trees over requirement	29

The information gathered and reported above is provided to satisfy the city of Redmond's requirements for a tree preservation plan (RMC 20D.80.20) of the Redmond Community Development Guide. The trees were surveyed and tagged by kpff prior to my evaluation. Each tree was measured at approximately four and a half feet above grade. Each trunk of trees whose normal growth habit is characterized by multiple trunks as well as those trees whose structure arose out of co-dominant leaders were also measured at 4.5' above grade and the average of the leaders were taken to be the adjusted DBH sited on the matrix.

Trees whose adjusted DBH were less than 6" (the diameter necessary to be considered significant) were recorded but not counted toward the total number of significant trees. Likewise, dead trees were eliminated from the overall tree count. Any trees that were dying, but still had living tissue were assessed as being in "poor" condition.

The dripline of each tree was measured using a laser recording device. One measurement was taken on each tree with a "normal" balanced canopy that was approximately equal in radius in all directions. Trees with asymmetric canopies are generally located on the outside edges of groves. The radius of their canopies can vary a great deal. When describing the radius of those canopies, measurements were taken of the canopy in the four directions (NESW) are recorded.

Driplines were also revised to more adequately reflect the location of buttress roots located on the opposite side of an asymmetric canopy – so where there may not be a dripline present, one was prescribed.

Landmark trees are identified in this report by a bolder typeface and described under the "value" column as **LM**.

As much as possible retained trees were left in groves and retained in areas where they would not experience changes in wind impact.

Currently, the proposed site development includes 30 residential buildings and several mixed-use structures accessed by a roadway running east-west with frontage onto Willows Road and NE 124th Street. There is a "protected native growth area" of mixed species trees located on the south side of the property which includes critical steep slope and a small creek. There is a storm detention tract located on the northeast corner of the site.

Comments Regarding Non-Viable Landmark Trees:

On this 15.4-acre site, there are forty -four (44) "Landmark" (having a DBH >30") trees; three (3) of the Landmark trees are impacted by site improvements, two (#210 and #177) of those impacted trees are impacted by roadways and are therefore counted as retained. One Landmark tree (#629) is impacted by site grading and is therefore not considered retained. tree is impacted nine (9) are assessed as being in poor condition with a recommendation that they be removed. These trees are located outside the critical slope and wetland area. In addition to these trees, there are Landmark-sized trees within the buffer with significant health issues that preclude their being counted as a retained tree, however, they will be retained because there is no proposed target that could be damaged in the event of their failure.

Three of the trees do not strictly meet the criteria as they are multi-stemmed "clumps" of trees with collected DBH measurements >17", however, the ISA recommends that the DBH of each individual trunk be squared and added together, the square root of that total equals the "adjusted" DBH. Some of the trunks of the trees may be separated from another by several feet as in the case of the Beech tree #5. The three (3) trees with adjusted DBH >30" are tree numbers, 5, 77, and 179.

The remainder of the trees designated as "Landmark trees" strictly meet the criteria having a DBH at standard height >30". Those trees are: #38, #53, #75, #416, #417 and # 423.

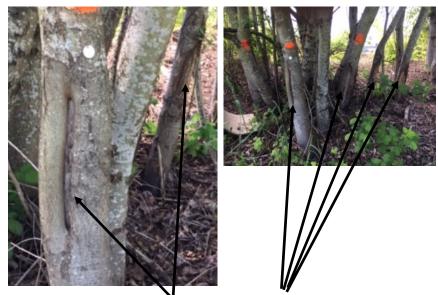
1	2	3	4	5	6	7	8	
#	Tree Tag #	Species ID	DBH inches	Adj. DBH inches	Drip- line radius feet	Health	Defects/Comments	Non- viable
1	5	Beech	7, 8, 8, 9, 8, 13, 14, 12, 11, 11	33	24	Fair	Co-dominant leaders with included bark x10 @ root crown, typical of species, multiple wounds @ root crown up to 3', woodpecker activity, dead wood	1
2	51	Cotton- wood	38	38	20	Poor	Moss and lichen, dead wood, broken branches, dead scaffold, poor pruning with decay	1

The following table describes their individual defects that may them unsuitable for retention:

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1	2	3	4	5	6	7	8	
#	Tree Tag #	Species ID	DBH inches	Adj. DBH inches	Drip- line radius feet	Health	Defects/Comments	Non- viable
3	57	Cotton- wood	53	53	24	Poor	Co-dominant leaders with included bark x2 @ 6', previous top loss, decay throughout	1
4	75	Apple	31	31	18	Poor	Typical of species, cavity on north, carpenter ants, woodpecker activity, ivy @ root crown up to 30', blackberries at root crown up to 30', moss and lichen	1
5	77	Bigleaf maple	9, 11, 16, 15, 12, 15, 16, 17, 15	42.5	38	Fair	Co-dominant leaders with included bark x9 @ root crown, dead trunks, dead scaffolds, cavity	1
6	179	Bigleaf maple	12, 13, 10, 6, 16, 15	30.5	36	Poor	Co-dominant leaders with included bark x6 @ root crown, dead wood, broken branches, low live crown ratio less than 15%, Hypoxylon canker, girdling wire	1
7	416	Cotton- wood	48	48	22	Poor	Nurse tree, previous top loss, dead wood, dead scaffold, exposed roots	1
8	417	Cotton- wood	36	36	18	Poor	Previous top loss, lean to east, dead wood, broken branches	1
9	423	Cotton- wood	35	35	18	Fair	Typical of species, moss and lichen, exposed roots, decay @ root crown	1

Photo documentation of the non-viable Landmark trees:



#5 is a multi-stemmed beech with significant decay in most the trunks

Beech as a species nationwide is in serious decline from both insect and disease. The tree species has a low ability to compartmentalize disease and once the tree is injured, decay follows quickly.



Trees # 416 and #417 are cottonwoods with previous top loss, dead wood throughout the canopy, exposed and decaying roots, Tree #416 has a lean to the NE











Tree #423 Cottonwood, significant failure of 1/2 of the tree, dead wood, exposed roots



Tree #75 is an overly-mature apple with little live wood

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Tree #77 is a Bigleaf maple, with significant die back in the entire canopy.

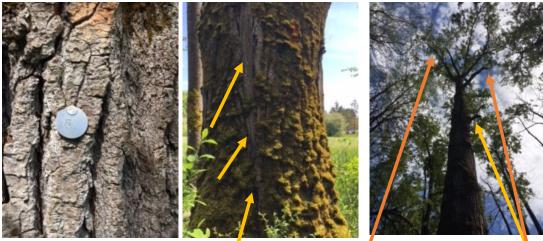
The tree to the left of the dying maple is healthy. Note the difference in leaf size, color and quantity





Tree 57 is a cottonwood with little living tissue and a lot of dead wood. There is a horizontal crack visible above the tag.





Tree #51 Cottonwood, vertical crack with decay, previous top loss, low live crown ratio and dead wood





Multi-trunk bigleaf maple, 2 sides failing

Tree Protection Fencing:

First, protect the roots that lie in the path of construction. Approximately 90-95% of a trees root systems lie in the top three feet of soil and more than ½ of them are in the top 1'. Construction activities should be avoided in this area. Protect as much of the area beyond the tree's dripline as possible. Some healthy trees survive after losing ½ of their roots. However, other species are extremely sensitive to root damage even outside the dripline.

Do not disturb the critical root zone (CRZ). The CRZ is defined by its critical root radius. It is more accurate than the dripline for determining the CRZ of trees growing in forests or that have narrow growth habits. To calculate the critical root radius, measure the trees diameter (DBH) 4.5' above the ground. For each inch, allow for 1- 1.5' of critical root radius. If a tree's DBH is 10", its critical root radius is 10-15'.

In addition to the CRZ, it is important to determine the limits of disturbance (LOD) for preserved trees. Generally, this approximates the CRZ; however, in previously excavated areas around the dripline the LOD may be smaller or in the case of a tree situated on a slope the LOD may be larger. The determination of the LOD is also subject to the tree species. Some tree species do better than others after root disturbance.

Tree protection is advised throughout the duration of any construction activities whenever the critical root zone or leaf canopy may be encroached upon by such activities.

The CRZ or LOD should be protected with fencing adequate to hinder access to people, vehicles and equipment. Fencing detail should be provided. It should consist of continuous 4' high temporary chain-link fencing with post sections @ 10' on center, polyethylene laminar safety fencing or similar materials. The fencing must contain fencing signage detailing that the tree protection area cannot be trespassed on.

Soil compaction is one of the most common killers of urban trees. Stockpiled materials, heavy machinery and excessive foot traffic damage soil structure by reducing pore space. The effected tree roots suffocate. When construction takes place close to the protected CRZ, cover the site with 4" of bark to reduce soil compaction.

Tree protection fencing must be erected prior to soil excavation, boring, grading or fill operations. It is erected at the LOD. If it is necessary to run utilities within the LOD, the utilities should be combined into one cut as practical. Trenching should not be done in the LOD. If roots greater than 1" diameter near the LOD are damaged or torn, it is necessary to hand trim them to a clean cut. Any roots that are exposed during construction should be covered with soil as soon as possible.

During drought conditions, trees must be adequately watered. Site should be visited regularly by a qualified ISA Certified Arborist to ensure the health of the trees. Tree protection fencing is the last item to be removed from the site after construction is completed.

After construction, has been completed, please contact an ISA Certified arborist to evaluate the remaining trees looking for signs and symptoms of damage or stress. It may take several years for severe problems to appear. If fencing around portions of the CRZ of a tree to be retained are not practical to erect due to construction or obstacles, tree protection fencing should be placed 3' laterally from the obstruction (ex. 3' back of a curb, building, or other existing or planned permanent infrastructure.)

Glossary:

ANSI A300: American National Standards Institute (ANSI) standards for treecare

Chlorotic: discoloration caused by lack of chlorophyll in the foliage

- Conifer: A tree that bears cones and has evergreen needles orscales
- Crown: the above ground portion of the tree comprised of branches and their foliage
- Crown raise pruning: a pruning technique where the lower branches are removed, thus raising the overall height of the crown from the ground
- DBH or DSH: diameter at breast or standard height; the diameter of the trunk measured54 inches (4.5 feet) above grade
- Deciduous: tree or other plant that loses its leaves annually and remains leafless generally during the cold season
- Epicormic: arising from latent or adventitious buds
- Evergreen: tree or plant that keeps its needles or leaves year-round; this means for more than one growing season

Increment: the amount of new wood fiber added to a tree in each period, normally one year.

ISA: International Society of Arboriculture

Landscape function: the environmental, aesthetic, or architectural functions that a plantcan have

Lateral: secondary or subordinate branch

- Limits of disturbance: The boundary of minimum protection around a tree, the area that cannot be encroached upon without possible permanent damage to the tree. It is a distance determined by a qualified professional and is based on the age of the tree, its health, the tree species tolerance to disruption and the type of disturbance. It also considers soil and environmental condition and previous impacts. It is uniqueto each tree in its location.
- Limited visual assessment: a visual assessment from a specified perspective such as foot, vehicle, or aerial (airborne) patrol of an individual tree or a population of trees near specified targets to identify specified conditions or obvious defects (ISA2013)
- Live crown ratio: the percentage of living tissue in the canopy versus the tree's height. It is a good indicator of overall tree health and the trees growing conditions. Trees with less than a 30% Crown ratio often lack the necessary quantity of photosynthetic material necessary to sustain the roots; consequently, the tree may exhibit low vigor and poor health.

Monitoring: keeping a close watch; performing regular checks or inspections

- Owner/manager: the person or entity responsible for tree management or the controlling authority that regulates tree management
- Pathogen: causal agent of disease

Phototropic growth: growth toward light source or stimulant

- ROW: Right-of-way; generally referring to a tree that is located offsite on a city easement
- Reaction wood: Specialized secondary xylem which develops in response to a lean or similar mechanical stress, it serves to help restore the stem to a vertical position
- Self-corrected lean: a tree whose trunk is at an angle to the grade but whose trunk and canopy changes to become upright/vertical
- Senescence: The condition or process of deterioration with age; loss of a cell's power of division and growth

- Significant tree: a tree measuring a specific diameter determined by the municipality the tree grows in. Some municipalities deem that only healthy trees can be significant, other municipalities consider both healthy and unhealthy trees of a determined diameter to be significant
- Snag: a tree left partially standing for the primary purpose of providing habitat for wildlife
- Soil structure: the size of particles and their arrangement; considers the soil, water, and air space
- Sounding: process of striking a tree with a mallet or other appropriate tool and listening for tones that indicate dead bark, a thin layer of wood outside a cavity, or cracks in wood
- Structural defects: flaws, decay, or other faults in the trunk, branches, or root collar of a tree, which may lead to failure; may be genetic, or environmental
- Tree credit: A number assigned to a tree by a municipality that may be equal to the diameter of the tree or a numerical count of the tree, or related to diameter by a factor conveyed in a table of the municipal code
- Trunk area: the cross-sectional area of the trunk based upon measurement at 54inches (4.5 ft.) above grade
- Visual Tree Assessment (VTA): method of evaluating structural defects and stability in trees by noting the pattern of growth. Developed by Claus Mattheck (Harris, et al 1999) detailed visual inspection of a tree and surrounding site that may include the use of simple tools. It requires that a tree risk assessor walk completely around the tree trunk looking at the site, aboveground roots, trunk, and branches (ISA2013)

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