



ARBOR INFO LLC

2406 N Castle Way Brier, WA, 98036

**Tree Assessment  
For  
Homelink Capital  
At  
4833 90<sup>th</sup> Ave SE  
Mercer Island, Washington**

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**Date  
4/20/2022**

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- II. Tree Assessment Summary Table
- III. Mercer Island Check list
- IV. Mercer Island Tree Inventory Form

## **1. Introduction**

I was contacted by Mazen Haider at Pacific Land Engineering to describe and assess the condition and viability of trees on and adjacent to 4833-90<sup>th</sup> Ave SE, Mercer Island, WA. This report summarizes my observations and conclusions.

## **2. Competence**

- Certified Arborist (International Society of Arboriculture, ISA #23136, PN 0426 A)
- Registered Consulting Arborist (American Society of Consulting Arborists #499).
- Tree Risk Assessment Qualified (ISA).
- Certified forester (Society of American Foresters #951)
- Bachelor of Science degree in Forest Management from the University of Washington
- Licensed Washington State Real Estate Managing Broker #11534

## **3. Client**

The client to whom this report is addressed is:

Mazen Haider  
Pacific Land Engineering  
mazen@pacificlandwa

And

Jintao (Adison) Cui  
Homelink Capital LLC  
adisoncui@outlook.com

## **4. Assignment, Purpose and Use of Report**

The assignment is to describe and assess the condition and viability of on-site and off-site trees adjacent to the subject parcel. Protection recommendations in conformance with the City of Mercer Island “Tree Submittal Check List” are pending development plans.

## **5. Limits of Assignment**

The assignment is limited to the information gathered during the site visit April 19, 2022 (date of assessment) and references noted in this report. No excavation or sampling was undertaken to determine unseen defects. No inspection of trees not reported herein was made.

A site plan indicating the current condition of the property was provided and is included in the Addenda with tree locations noted.

## 6. Site Description

4833-90<sup>th</sup> Ave SE Mercer Island, WA  
King County Parcel No. 435130-0487, 41,165 square feet; 0.95 acres

The subject property contains an unoccupied single-family residence on near level ground.

Four new single-family residences are planned for the site.

## 7. Methodology

Each tree was measured for diameter at 4.5-feet above ground, (or equivalent) total height, percentage of live green crown, and dripline (extent of live limbs).

Each tree was assessed as to its vitality, structure, vigor and viability:

**Vigor** or condition:

### Health(Vitality) : Biotic

- Good: No evidence of fungal infection or decay; expected to survive without disturbance to its normal life expectancy. (40-100 years in this case)
- Fair: Tree has initial fungal decay or evidence of insect habitat and is less likely to survive to normal life expectancy. Some with minor defects, are rated viable,
- Poor: Tree has significant fungal decay and defects that render it not likely to survive three years.

### Structural: Abiotic

- Good: no significant abiotic or mechanical defects
- Fair: less than preferred form, defects such as breaks in the bole, poor limb attachments, included bark, poor root contact, etc.
- Poor: Broken or cracked bole or limbs; root plate compromised

**Viability:**

- A measure of whether the tree is likely to live to its “normal” life span or has defects limiting that potential or poses a risk to the residence or proposed development is a simple ‘yes/no’ rating.



## 8. Tree Description

Refer to the attached Tree Assessment Summary Form. There are a total of sixty-one on-site trees and nine off-site. A summary of the trees follows.

Table 1- Tree Category Summary – On site

<u>Category</u>	<u>Number</u>
Total	61
Total viable	39
36"+	5
24"+	11
Exceptional	8
Large Regulated	30
Large Regulated to be Removed	TBD
Percentage Retention	TBD0%

Table 2- Tree Category Summary – Off site - Right of Way

<u>Category</u>	<u>Number</u>
24"+	0
Exceptional	0
Large Regulated	5
Large Regulated to be Removed	TBD
Percentage Retention	TBD%

Table 3- Tree Category Summary – Off site – Private

<u>Category</u>	<u>Number</u>
24"+	1
Exceptional	0
Large Regulated	3
Large Regulated to be Removed	TBD
Percentage Retention	TBD%

## 9. Replacement Trees **TBD**

## 10. Summary TDB

The on-site trees are all non-viable and or hedged and therefore no replacements are required in the event of removal. The off-site trees are well away from planned construction activities.

## 11. Assumptions and Limiting Conditions

1. Any legal description provided to the consultant is assumed to be correct. Ownership of the subject trees as provided by the client is assumed to be correct. No responsibility is assumed for legal matters. No opinion as to the property line location is made.
2. Care has been taken to obtain all information from reliable sources. The consultant can neither guarantee nor be responsible for the accuracy of information provided by others.
3. The consultant shall not be required to give testimony or attend court by reason of this report unless subsequent contractual arrangements are made, including additional fees.
4. This report and any values expressed herein represent the opinion of the consultant, and the consultant's fee is in no way contingent upon the reporting of a specified value, a stipulated result, the occurrence of a subsequent event, nor upon any finding to be reported.
5. The exhibits in this report are included to assist the reader and are not necessarily to scale.
6. Unless expressed otherwise, information in this report covers only items that were examined, and reflects the condition of those items at the time of inspection. The subject site was cleared of all vegetation at the time of inspection therefore the extent of removals is inferred from adjacent undisturbed areas. The inspection is limited to visual examination of accessible portions of the trees and plants.
7. Loss or alteration of any part of the report invalidates the entire report. Ownership of any documents related to this report passes to the client only.
8. The liability of ArborInfo LLC its contractors and employees is limited to the client only and only up to the amount of the fee actually received for the assignment.
9. *There is no warranty suggested for any of the trees subject to this report. Weather, latent tree conditions, and future man-caused activities could cause physiologic changes and deteriorating tree condition. Over time, deteriorating*

*tree conditions may appear and there may be conditions, which are not now visible which, could cause tree failure. This report or the verbal comments made at the site in no way warrant the structural stability or long-term condition of any tree, but represent my opinion based on the observations made.*

10. *NEARLY ALL TREES IN ANY CONDITION STANDING WITHIN REACH OF IMPROVEMENTS OR HUMAN USE AREAS REPRESENT HAZARDS THAT COULD LEAD TO DAMAGE OR INJURY. THE ASSESSMENT IS VALID FOR TWO YEARS FROM THE DATE OF INSPECTION, ONLY.*

11. PERTINENT JURISDICTION RULES AND REGULATIONS SHOULD BE CONSULTED PRIOR TO THE REMOVAL OF ANY TREE.

Respectfully Submitted,



Thomas M. Hanson, CA, RCA

## Addenda

- I. Tree Location Map
- II. Tree Assessment Summary Table
- III. Mercer Island Check list
- IV. Mercer Island Tree Inventory Form

**Tree Assessment**

**Site: Homelink Capital, 4833 - 90th Ave SE, Mercer Island, WA**

**Date: 4/20/2022**

Tag #	Tree #	Species		DBH (inches)	Height (feet)	Crown Ratio (%)	DripLine(ft)				Root Zone/Outer Radius (feet)	Root Zone/Inner Radius (feet)	Vigor	Viable	Large Regulated	Exceptional	Comments
		Common	Scientific				N	S	E	W							
<b>On Site</b>																	
570	3	Bigleaf maple	<i>Acer macrophyllum</i>	22.5	90	50	22	30	22	20	24	12	Good	Yes	✓		
571	4	Douglas-fir	<i>Pseudotsuga menziesii</i>	41.5	115	40	18	22	18	20	20	10	Good	Yes	✓		Sweep North
760	5	Pacific madrone	<i>Arbutus menziesii</i>	14.6	70	30	12	10	0	24	12	6	Good	Yes	✓		
755	6	W. red cedar	<i>Thuja plicata</i>	0	0	0	0	0	0	0	0	0					Cut down
762	7	Bigleaf maple	<i>Acer macrophyllum</i>	7.5	40	20	0	15	11	6	8	4	Fair	No			Leans, brokend top
763	8	Bigleaf maple	<i>Acer macrophyllum</i>	12.1	50	20	0	18	0	16	9	4	Poor	No			Asymmetric, leans south
767	9	Bigleaf maple	<i>Acer macrophyllum</i>	20.9	50	20	0	14	0	28	11	5	Poor	No			Hollow, top out
768	10	Black cottonwood	<i>Populus trichocarpa</i>	28.7	120	40	36	30	26	36	32	16	Good	Yes			Ivy
778	11	Pacific madrone	<i>Arbutus menziesii</i>	11.9	40	10	2	4	4	0	3	1	Poor	No			Top out, small crown, minor decay
786	12	Pacific madrone	<i>Arbutus menziesii</i>	18.9	80	30	30	0	6	6	11	5	Fair	No			Dying, dead limbs
787	13	Bigleaf maple	<i>Acer macrophyllum</i>	19.5	75	60	20	14	24	22	20	10	Good	Yes	✓		Two codominants fused at 4-8-small codom decay
788	14	Bigleaf maple	<i>Acer macrophyllum</i>	0	0	0	0	0	0	0	0	0					Cut down
789	15	Bigleaf maple	<i>Acer macrophyllum</i>	14.5	40	10	6	4	4	4	5	2	Poor	No			Dying, dead limbs
836	16	Douglas-fir	<i>Pseudotsuga menziesii</i>	17.5	30	40	14	17	8	18	14	7	Fair	No			Topped for utilities, overhangs Island Crest
788	18	Pacific madrone	<i>Arbutus menziesii</i>	20.1	45	20	6	8	12	12	10	5	Fair	Yes	✓		Ivy
849	19*	Bigleaf maple	<i>Acer macrophyllum</i>	19.6	55	60	8	20	4	22	14	7	Good	Yes	✓		
850	20*	Holly	<i>Ilex sp.</i>	12.7	40	60	16	16	16	16	16	8	Good	Yes			
851	21	Bigleaf maple	<i>Acer macrophyllum</i>	21.2	90	30	30	8	4	4	12	6	Good	Yes	✓		
742	22	Red alder	<i>Alnus rubra</i>	12.2	50	40	8	24	0	24	14	7	Poor	No			Adjacent to snag, decay, dying
602	23	Red alder	<i>Alnus rubra</i>	0	0	0	0	0	0	0	0	0					Cut down
603	24	W. red cedar	<i>Thuja plicata</i>	23.5	55	100	16	16	16	16	16	8	Good	Yes	✓		
604	25*	Bigleaf maple	<i>Acer macrophyllum</i>	19.6	55	70	20	20	20	18	20	10	Good	Yes	✓		
628	26	Douglas-fir	<i>Pseudotsuga menziesii</i>	38.6	125	80	26	26	26	26	26	13	Good	Yes	✓		
854	27*	Bigleaf maple	<i>Acer macrophyllum</i>	32.9	90	60	28	28	34	30	30	15	Good	Yes	✓		
855	28	W. red cedar	<i>Thuja plicata</i>	39.1	80	90	24	24	24	24	24	12	Fair	Yes	✓		Thin crown
847	29	Pacific madrone	<i>Arbutus menziesii</i>	10.4	50	20	24	6	18	0	12	6	Fair	No			Thin crown
846	30*	Bigleaf maple	<i>Acer macrophyllum</i>	20.0	70	40	24	18	16	16	19	9	Good	Yes	✓		Pruned for utility lines

Tree Assessment

Site: Homelink Capital, 4833 - 90th Ave SE, Mercer Island, WA

Date: 4/20/2022

Tag #	Tree #	Species		DBH (inches)	Height (feet)	Crown Ratio (%)	DripLine(ft)				Root Zone/Outer Radius (feet)	Root Zone/Inner Radius (feet)	Vigor	Viable	Large Regulated	Exceptional	Comments
		Common	Scientific				N	S	E	W							
On Site																	
844	31	Douglas-fir	<i>Pseudotsuga menziesii</i>	15.5	25	40	14	14	14	14	14	7	Good	Fair	Yes	✓	Topped for utility lines
856	32*	Bigleaf maple	<i>Acer macrophyllum</i>	28.3	90	60	18	30	28	28	26	13	Good	Fair	Yes	✓	Sucker codominant
634	33	Pacific madrone	<i>Arbutus menziesii</i>	28.1	80	60	12	35	0	40	22	11	Good	Good	Yes	✓	Leans west
633	34	Bigleaf maple	<i>Acer macrophyllum</i>	25.1	80	30	14	18	0	25	14	7	Fair	Fair	Yes	✓	Smaller codominant is dead
631	35*	Bigleaf maple	<i>Acer macrophyllum</i>	31.6	80	40	28	32	20	26	27	13	Fair	Poor	No		Perched on nurse stump, brittle cinder fungus
632	36	Deodora cedar	<i>Cedrus deodora</i>	19.4	90	80	7	16	16	16	14	7	Good	Good	Yes	✓	
865	37	Bigleaf maple	<i>Acer macrophyllum</i>	17.6	90	30	30	20	6	28	21	11	Good	Good	Yes	✓	
881	38	Bigleaf maple	<i>Acer macrophyllum</i>	7.1	40	20	0	16	16	0	8	4	Good	Poor	Yes		
866	39*	Bigleaf maple	<i>Acer macrophyllum</i>	21.2	60	20	14	6	6	6	8	4	Fair	Good	No		Pruned for utility lines, low crown ratio
885	40	Pacific madrone	<i>Arbutus menziesii</i>	7.5	20	30	12	2	0	10	6	3	Good	Fair	Yes		Hangs over Island Crest
886	41	Pacific madrone	<i>Arbutus menziesii</i>	10.9	20	30	16	0	6	16	10	5	Good	Fair	Yes	✓	Topped for utilities
867	42	Pacific madrone	<i>Arbutus menziesii</i>	6.5	20	20	6	0	0	16	6	3	Good	Fair	Yes	✓	Topped for utilities
887	43	Pacific madrone	<i>Arbutus menziesii</i>	9.6	20	30	2	6	2	10	5	3	Good	Fair	Yes	✓	Topped for utilities
890	47*	Pacific madrone	<i>Arbutus menziesii</i>	10.3	20	20	6	5	0	12	6	3	Poor	Poor	No		Topped for utilities, low crown ratio
888	49	Bigleaf maple	<i>Acer macrophyllum</i>	18.7	80	40	18	26	12	18	19	9	Good	Good	Yes	✓	
883	50	Douglas-fir	<i>Pseudotsuga menziesii</i>	26.1	85	30	14	14	14	14	14	7	Good	Good	Yes	✓	
868	51	Bigleaf maple	<i>Acer macrophyllum</i>	11.1	35	10	1	0	0	0	0	0	Poor	Fair	No		Low crown ratio
882	52*	Bigleaf maple	<i>Acer macrophyllum</i>	21.9	80	40	23	28	28	6	21	11	Good	Good	Yes	✓	
898	54*	Pacific madrone	<i>Arbutus menziesii</i>	13.9	80	60	16	8	8	8	10	5	Good	Good	Yes	✓	
635	55	Bigleaf maple	<i>Acer macrophyllum</i>	32.0	80	70	20	24	20	29	23	12	Good	Good	Yes	✓	Ivy
637	56*	Bigleaf maple	<i>Acer macrophyllum</i>	36.9	85	70	25	30	25	25	26	13	Fair	Fair	Yes	✓	10% dead limbs
991	57	Dogwood	<i>Cornus florida</i>	6.4	18	90	9	9	9	9	9	5	Good	Good	Yes		
1001	58	Scouters Willow	<i>Salix scouritana</i>	9.5	35	20	0	6	3	3	3	2	Poor	Poor	No		ivy, top broken out
1002	59	Scouters Willow	<i>Salix scouritana</i>	9.2	35	40	5	8	15	0	7	4	Poor	Poor	No		ivy, pistol butt, leans over utilities
1004	61	Bigleaf maple	<i>Acer macrophyllum</i>	8.5	16	10	0	3	0	0	1	0	Poor	Poor	No		Stem broken
1005	62	Bitter cherry	<i>Prunus emarginata</i>	8.5	45	50	12	12	12	12	12	6	Good	Good	Yes		
1006	63	Pacific madrone	<i>Arbutus menziesii</i>	25.2	90	70	0	36	28	10	19	9	Good	Good	Yes	✓	

**Tree Assessment**

**Site: Homelink Capital, 4833 - 90th Ave SE, Mercer Island, WA**

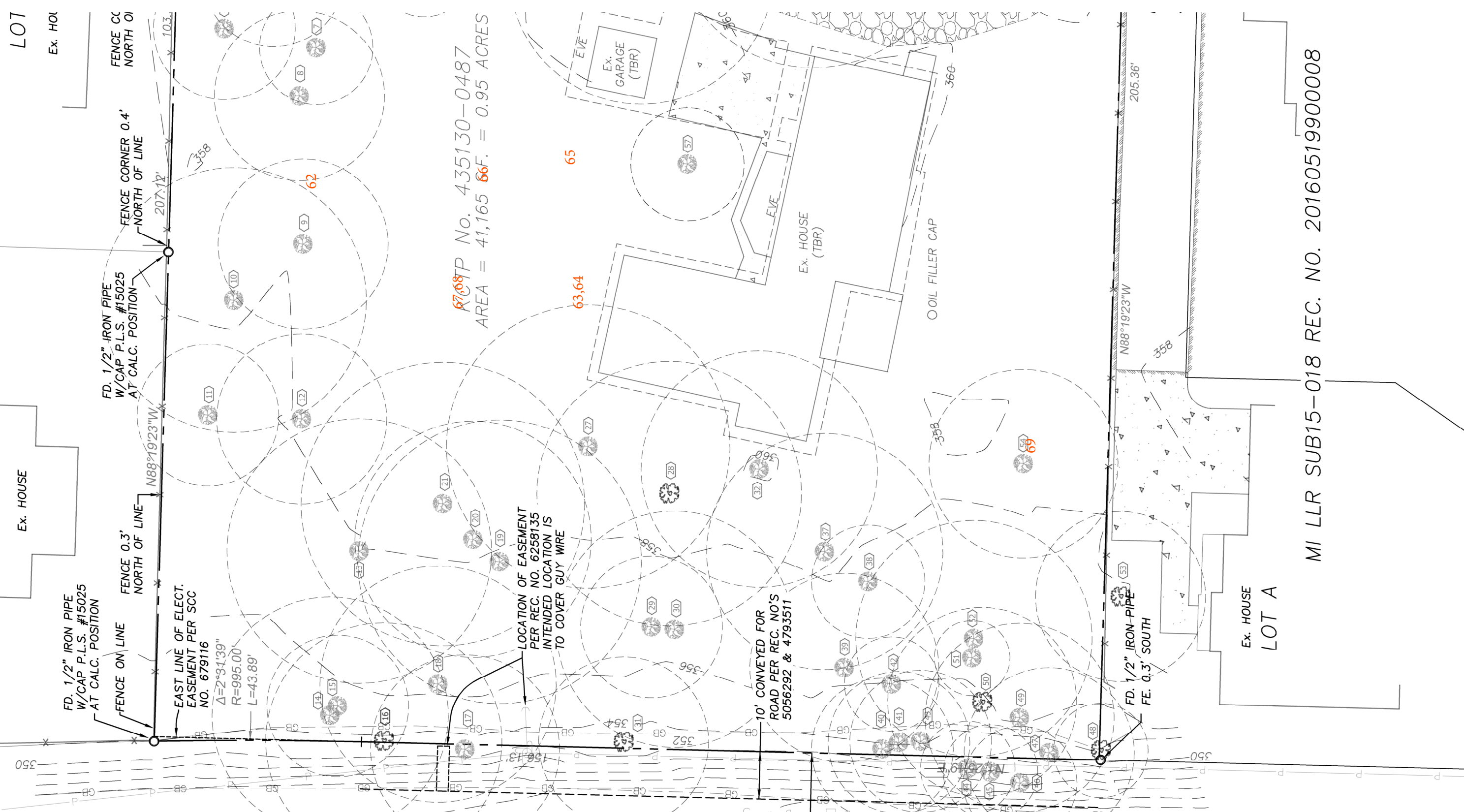
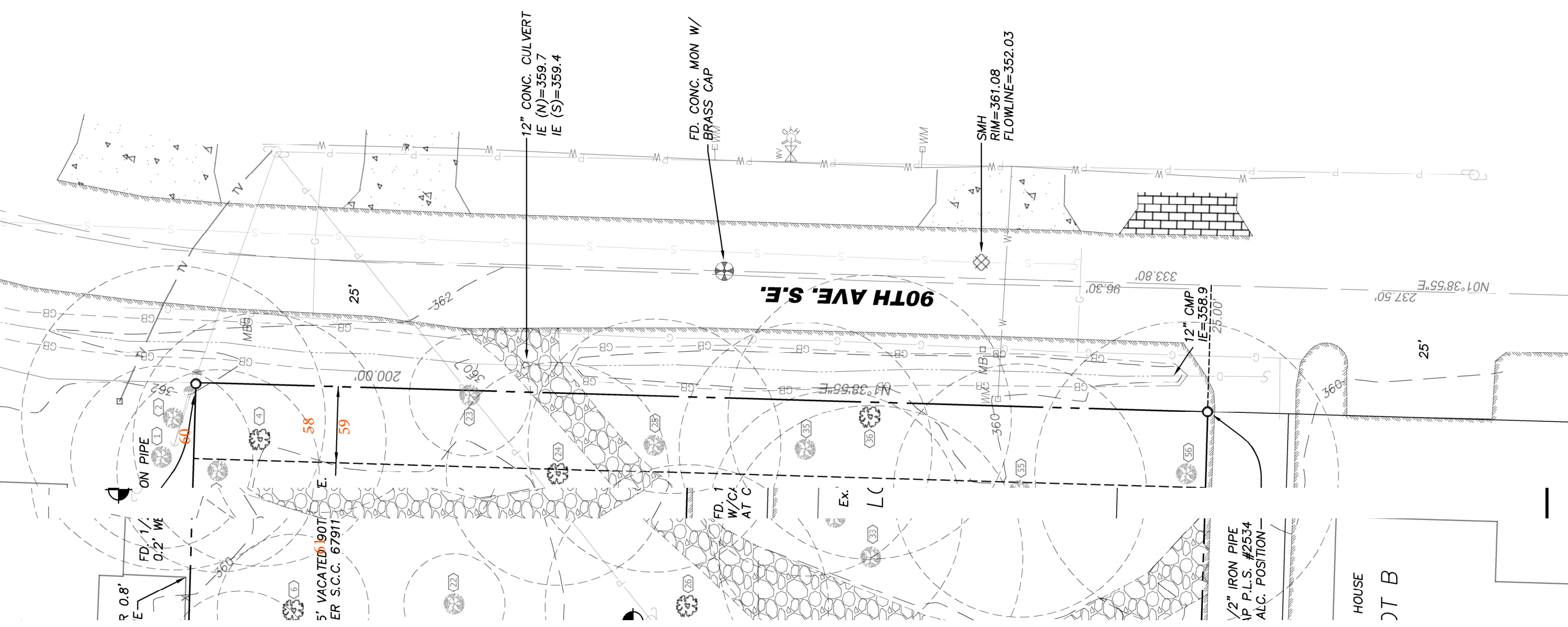
**Date: 4/20/2022**

Tag #	Tree #	Species		DBH (inches)	Height (feet)	Crown Ratio (%)	DripLine(ft)				Root Zone/Outer Radius (feet)	Root Zone/Inner Radius (feet)	Vigor	Viable	Large Regulated	Exceptional	Comments
		Common	Scientific				N	S	E	W							
<b>On Site</b>																	
1007	64	Pacific madrone	<i>Arbutus menziesii</i>	8.5	26	20	4	3	24	0	8	4	Poor	No			Dying, 30% dead limbs
1008	65	Common Hawthorn	<i>Crataegus laevigata</i>	6.1	18	90	10	12	10	8	10	5	Good	Yes			
1009	66	Bitter cherry	<i>Prunus emarginata</i>	10.1	45	40	16	8	6	12	11	5	Fair	No			20% dead limbs
1010	67	Bigleaf maple	<i>Acer macrophyllum</i>	15.6	80	30	0	12	0	34	12	6	Good	Yes	✓		
1011	68	Pacific madrone	<i>Arbutus menziesii</i>	18.1	80	20	22	0	0	14	9	5	Fair	Yes	✓		Low crown ratio
1012	69	Bitter cherry	<i>Prunus emarginata</i>	14.8	80	60	18	16	20	8	16	8	Good	Yes	✓		
<b>Off Site</b>																	
569	1	Bigleaf maple	<i>Acer macrophyllum</i>	15.4	60	20	10	3	0	16	7	4	Good	Yes	✓		Asymmetric
568	2	Bigleaf maple	<i>Acer macrophyllum</i>	25.5	60	60	36	18	36	22	28	14	Good	Yes	✓		Leans northeast
837	17	Bigleaf maple	<i>Acer macrophyllum</i>	8.4	22	30	3	14	10	12	10	5	Good	No			Topped for utilities, overhangs Island Crest
964	44	Pacific madrone	<i>Arbutus menziesii</i>	5.0	20	20	4	2	0	8	4	2	Fair	Yes			Topped for utilities
965	45	Pacific madrone	<i>Arbutus menziesii</i>	7.2	25	20	8	4	0	8	5	3	Good	Yes	✓		Topped for utilities
966	46	W. red cedar	<i>Thuja plicata</i>	5.0	22	70	4	5	2	6	4	2	Good	Yes			
891	48	Douglas-fir	<i>Pseudotsuga menziesii</i>	6.8	18	20	6	6	6	4	6	3	Poor	No			Topped for utilities, low crown ratio
708	53	Douglas-fir	<i>Pseudotsuga menziesii</i>	15.0	75	50	16	10	6	10	6	3	Good	Yes	✓		Sweep
1003	60	Bigleaf maple	<i>Acer macrophyllum</i>	10.5	70	30	0	16	16	0	8	4	Good	Yes	✓		
* multiple stems converted to single																	



- = POWER POLE
- = GUY POLE
- = OVERHEAD POWER
- = FIRE HYDRANT
- = WATER VALVE
- = WATER METER
- = WATER LINE (PAINTED LOCATION)
- = UNDERGROUND TELEVISION (PAINTED LOCATION)
- = TELEVISION RISER
- = CATCH BASIN
- = STORM DRAIN LINE/CULVERT
- = GAS VALVE
- = UNDERGROUND GAS LINE (PAINTED LOCATION)
- = SEWER LINE
- = MAIL BOX
- = EVERGREEN TREE
- = DECIDUOUS TREE
- = WOOD BOARD FENCE LINE
- = FOG LINE (LANE STRIPE)
- = DITCH LINE
- = GRADE BREAK
- = EDGE OF PAVEMENT/CURB LINE
- = CONCRETE
- = CONCRETE PAVERS
- = GRAVEL
- = TBM = 60D SPIKE IN POWER POLE  
ELEV = 361.47 (NAVD 1988)

TREE #	DBH/SPECIES	POINT #
1	13" MAPLE	569
2	20" MAPLE	568
3	24" MAPLE	570
4	42" FIR	571
5	15" MADRONA	760
6	30" CEDAR	755
7	19" MAPLE (DEAD)	762
8	12" MAPLE	763
9	18" ALDER (DEAD)	767
10	28" MAPLE	768
11	11" MADRONA	778
12	17" DECIDUOUS	786
13	21" MAPLE	787
14	19" MAPLE	790
15	13" MAPLE	789
16	16" FIR	836
17	8" MAPLE	837
18	17" MADRONA	788
19	2-10", 2-8" MAPLE	849
20	3-6" DECIDUOUS	850
21	22" MAPLE	851
22	2-12" ALDER (DEAD)	742
23	14" ALDER (DEAD)	602
24	21" CEDAR	603
25	3-10" MAPLE	604
26	34" FIR	628
27	14", 18", 19" MAPLE	854
28	38" CEDAR	855
29	10" MADRONA	847
30	12", 14" MAPLE	846
31	12" FIR	844
32	36" MAPLE	856
33	29" MADRONA	634
34	25" MAPLE	633
35	2-20" MAPLE	631
36	17" FIR	632
37	14" MAPLE	865
38	7" MAPLE	881
39	2-12" MAPLE	866
40	8" MADRONA	885
41	8" 10" MADRONA	886
42	7" MADRONA	867
43	6" 8" DECIDUOUS	887
44	7" MADRONA	964
45	4" MADRONA	965
46	10" MADRONA	966
47	7" 8" 18" MADRONA	890
48	6" MADRONA	891
49	14" MAPLE	888
50	23" FIR	883
51	14" MAPLE (DEAD)	868
52	2-15" MAPLE	882
53	15" FIR	708
54	8" 11", 15" DECIDUOUS	898
55	28" MAPLE	635
56	2-21" MAPLE	637
57	6" DECIDUOUS	991



MI LLR SUB15-018 REC. NO. 20160519900008



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# CITY OF MERCER ISLAND

## COMMUNITY PLANNING & DEVELOPMENT

9611 SE 36TH STREET | MERCER ISLAND, WA 98040

PHONE: 206.275.7605 | [www.mercergov.org](http://www.mercergov.org)



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## TREE INVENTORY & REPLACEMENT SUBMITTAL INFORMATION

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### EXCEPTIONAL TREES

*Exceptional Trees*- means a tree or group of trees that because of its unique historical, ecological or aesthetic value constitutes an important community resource. A tree that is rare or exceptional by virtue of its size, species, condition, cultural/historical importance, age, and/or contribution as part of a tree grove. Trees with a diameter of more than 36 inches, or with a diameter that is equal to or greater than the diameter listed in the Exceptional Tree Table shown in MICC 19.16 under Tree, Exceptional.

List the total number of trees for each category and the tree identification numbers from the arborist report.

Number of trees 36" or greater \_\_\_\_\_

List tree numbers: \_\_\_\_\_

Number of trees 24" or greater (including 36" or greater) \_\_\_\_\_

List tree numbers: \_\_\_\_\_

Number of trees from Exceptional Tree Table (MICC 19.16) \_\_\_\_\_

List tree numbers: \_\_\_\_\_

### LARGE REGULATED TREES

*Large Regulated Trees*- means any tree with a diameter of 10 inches or more, and any tree that meets the definition of an Exceptional Tree.

Number of Large Regulated Trees on site \_\_\_\_\_ (A)

List tree numbers: \_\_\_\_\_

Number of Large Regulated Trees on site proposed for removal \_\_\_\_\_ (B)

List tree numbers: \_\_\_\_\_

**Percentage of trees to be retained ((A-B)/Ax100) note: must be at least 30%** \_\_\_\_\_ %

### RIGHT OF WAY TREES

*Right of Way Trees*- means a tree that is located in the street right of way adjacent to the project property.

Number of Large Regulated Trees in right of way \_\_\_\_\_

List tree numbers: \_\_\_\_\_

Number of Large Regulated Trees in right of way proposed for removal \_\_\_\_\_

List tree numbers: \_\_\_\_\_

Reason for removal: \_\_\_\_\_

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**TREE REPLACEMENT**

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Tree replacement- removed trees must be replaced based on the ratio in the table below. Replacement trees shall be conifers at least six feet tall and or deciduous at least one and one-half inches in diameter at base.

Diameter of Removed Tree (measured 4.5' above ground)	Tree replacement Ratio	Number of Trees Proposed for Removal	Number of Tree Required for Replacement Based on Size/Type
Less than 10"	1		
10" up to 24"	2		
Greater than 24" up to 36"	3		
Greater than 36" and any Exceptional Tree	6		
<b>TOTAL TREE REPLACEMENTS</b>			

# CITY OF MERCER ISLAND

## COMMUNITY PLANNING & DEVELOPMENT

9611 SE 36TH STREET | MERCER ISLAND, WA 98040

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Inspection Requests: Online: [www.mybuildingpermit.com](http://www.mybuildingpermit.com) VM: 206.275.7730



## TREE SUBMITTAL CHECKLIST

If a box is checked, please provide the information in your next submittal

### SUBMITTAL ITEMS

#### 1. The Mercer Island Tree Inventory Form

- Provide the City's Mercer Island Tree Inventory Form

#### 2. Arborist report/tree inventory

- Provide an Arborist report, prepared by a qualified Arborist. Include the following information in the arborist report.
  - 1. Description of how the arborist meets the threshold requirements for Qualified Arborist.
  - 2. A complete description of each tree's diameter, species, critical root zone, limits of allowable disturbance, health, condition, and viability.
  - 3. A description of the method(s) used to determine the limits of allowable disturbance (i.e., critical root zone, root plate diameter, or a case-by-case basis description for individual trees).
  - 4. Any special instructions specifically outlining any work proposed within the limits of disturbance protection areas (i.e. hand-digging, air space, tunneling, root pruning, any grade changes, clearing, monitoring, and aftercare).
  - 5. For trees not viable for retention, a description of the reason(s) for removal based on poor health, high risk of failure due to structure, defects, unavoidable isolation, windfirmness, unsuitability species, etc. If there is no reasonable alternative action (pruning, cabling, etc.) possible, replacement recommendations must be given.
  - 6. Describe the impact of necessary tree removal on the remaining trees, including those in a grove or on adjacent properties.
  - 7. Describe timing and installation of tree protection measures. Such measures must include fencing and be in accordance with the tree protection standards as outlined in MICC 19.10.
  - 8. The suggested location and species of replacement trees to be used when required. The report shall include planting and maintenance specifications to ensure long term survival.
  - 9. **A Tree Inventory** containing the following:
    - a. A numbering system of all existing large trees on the property (with corresponding tags on trees). The inventory shall also include large trees on adjacent property with driplines or critical root zones extending into the property.
    - b. Tree size (diameter). Where a tree splits into several trunks close to ground level, the dbh (Diameter at Breast Height) for the tree is the square root of the sum of the dbh for each individual stem squared (example with 3 stems:  $dbh = \sqrt{(stem1)^2 + (stem2)^2 + (stem3)^2}$  ).
    - c. Proposed tree status (retained or proposed for removal).
    - d. Tree type or species.
    - e. Identify all Exceptional trees and differentiate between those less than 24 inches and those greater than or equal to 24 inches in diameter.
    - f. Brief general health or condition rating of each tree (i.e. poor, fair, good, etc.).

#### 3. Site/tree retention plan

Indicate the following on all civil/utility and grading sheets. If there are no civil sheets indicate on the architectural site plan

- 1. Location of all proposed improvements (building footprint, access, utilities, buffers, required landscape areas).
- 2. Surveyed location of all large trees and Exceptional trees on the property
- 3. Show dripline and limits of disturbance for Large trees on site and adjacent properties if driplines extend over the subject property line.
- 4. Trees labeled corresponding to the tree inventory numbering system on the Mercer Island Tree Inventory Form, and Arborist Report.
- 5. Identify Exceptional trees using different symbols for trees less than 24 inches and trees greater than or equal to 24 inches.
- 6. Location of tree protection measures. Chain-link fence will be required for exceptional trees. Show silt fence outside tree protection measures. Do not use any x in the protection illustration.
- 7. Limits of excavation near potential saved trees (e.g. excavation limits for building foundation).
- 8. Indicate clearing limits/limits of disturbance (LOD) around all trees potentially impacted by site disturbances - grading, demolition, construction activities (including approximate LOD of off-site trees with overhanging driplines), etc.
- 9. Proposed tree status (trees to be removed or retained) noted by an 'X' for removal.

#### 4. Replanting plan

- Provide the Replanting plan showing proposed locations of any required replacement trees.

#### PEER REVIEW AND CONFLICT OF INTEREST

A peer review of the tree permit application by a qualified arborist may be required to verify the adequacy of the information and analysis. **The applicant shall bear the cost of the peer review.**

The City Arborist may require the applicant retain a replacement qualified arborist or may require a peer review where the City Arborist believes a conflict of interest may exist.

For example, if an otherwise qualified arborist is employed by a tree removal company and prepares the arborist report for a development proposal, a replacement qualified arborist or peer review may be required.

#### ARBORIST QUALIFICATION

For tree reviews associated with a development proposal, a qualified arborist must have

- A minimum of three (3) years' experience working directly with the protection of trees during construction
  - Have experience with the likelihood of tree survival after construction
  - Be able to prescribe appropriate measures for the preservation of trees during land development
  - ISA Tree Risk Assessment Qualification
- Your qualified arborists must have at least one (1) of the following credentials:
- ISA Certified Arborist;
  - ISA Certified Arborist Municipal Specialist;
  - ISA Board Certified Master Arborist;
  - American Society of Consulting Arborists (ASCA) registered Consulting Arborist;
  - Society of American Foresters (SAF) Certified Forester for Forest Management Plans;

#### ADDITIONAL INFORMATION

Additional Information. The City Arborist or Code Official may require additional documentation, plans, or information as needed to ensure compliance with applicable City regulations.