

Tree Assessment
For
Sturman Architects
At
8413 SE 82<sup>nd</sup> St.
Mercer Island, Washington



Date 6/13/2024

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- I. Tree Location Map
- II. Site Development Plan with Tree Protections
  - III. Tree Assessment Summary Table
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  - VI. Tree Protection Signage Requirements

#### 1. Introduction

I was contacted by John Magcawas at Sturman Architects to describe and assess the condition and viability of trees on and adjacent to 8413 SE 82<sup>nd</sup> St., 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:

John Magcawas Sturman Architects 9-103<sup>rd</sup> Ave NE, Suite 203 Bellevue, WA 98004

#### 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 included.

#### 5. Limits of Assignment

The assignment is limited to the information gathered during the site visit April 15, 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

 $8413-SE\ 82^{nd}\ St.$  Mercer Island, WA King County Parcel No. 3625600080, 16,386 square feet; 0.37 acres

The subject property is an irregularly shaped lot that contains a single-family residence on near level ground that drops off sharply on the SE end.

The existing house is planned for remodel on 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:

#### Vitality: Biotic

- Good: No evidence of fungal infection or decay; ) Tree has sufficient photosynthetic capacity to reach expected 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 because they have sufficient photosynthetic capacity to reach expected normal life expectancy,
- 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. May be rated non-viable.
- Poor: Broken or cracked bole or limbs; root plate compromised; generally rated non-viable.

#### 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 onsite trees and nine off-site. A summary of the trees follows.

Table 1- Tree Category Summary – On site

Category	<u>Number</u>
Total	21
Total viable	21
36"+	2
24"+	9
Exceptional	6
Large Regulated	16
Large Regulated to be Removed	4
Percentage Retention	75%

Table 2- Tree Category Summary – Off site – Private

<u>Category</u>	<u>Number</u>
24"+	1
Exceptional	0
Large Regulated	9
Large Regulated to be Removed	0
Percentage Retention	100%

#### 9. Tree Retention and Removals

Refer to Addendum II and Mercer Island City Code 19.10.060.

There are twenty-one trees on site with five proposed for removal, leaving 76-percent retention.

19.10.060.A.2. *Retention requirement*. Development proposals specified under subsection (a)(1) of this section shall retain trees as follows:

a .A minimum of 30 percent of trees with a diameter of ten inches or greater, or that otherwise meet the definition of large tree, shall be retained over a rolling five-year period.

The retention requirement is met.

The following Table 3 provides the likely root zone incursion and impacts for all trees.

Table 3 – Root Zone Impacts

Root Zone Impacts									
			Root	Zone	Distance tree face to:		Impact		
Tree #	Species	DBH	Outer Inner		Excavation	Percent	1		
1100	Species	(in)	(ft)	(ft)	(ft)	Disturbance*			
		(111)	(11)	(11)	On-site	Disturbance	<u> </u>		
1	C1	0.1	7	4	4'-10 1/2"	1%	<b>N</b> C		
2	Shore pine Douglas-fir	8.1 30.5	23	12	15'	36%	Minor		
	Douglas-Hr	30.3	23	12		30%	Remove		
3	Douglas-fir	30.4	18	9	Within driveway Excavation	6%	Remove		
4	Douglas-fir	32.5	15	8	Within house foot print	29%	Remove		
5	Douglas-fir	37.5	26	13	12'-8"	8%	Minor		
6	Beech	15.5	25	13	23'-9"	1%	Minor		
7	Japanese maple	11.1	14	7	8'-2"	3%	Minor		
8	Flowering cherry	9.5	10	5	Within house foot print	75%	Remove		
9	Douglas-fir	36.5	24	12	1'-1"	38%	Remove		
10	Bitter cherry	28.9	24	12	16'-2"	7%	Minor		
11	Shore pine	15.8	9	5	22'-4"	0%	NoneOutside dripline/root zone		
12	Flowering cherry	12.2	16	8	23'-6"	0%	NoneOutside dripline/root zone		
13	Douglas-fir	34.4	22	11	NA	0%	NoneOutside dripline/root zone		
14	Flowerign cherry	8.1	12	6	NA	0%	NoneOutside dripline/root zone		
15	Douglas-fir	29.7	18	9	NA	0%	NoneOutside dripline/root zone		
16	Douglas-fir	24.5	17	9	NA	0%	NoneOutside dripline/root zone		
17	Douglas-fir	19.5	18	9	NA	0%	NoneOutside dripline/root zone		
18	Cherry	13.9	15	8	NA	0%	NoneOutside dripline/root zone		
19	Vine maple	7.6	14	7	NA	0%	NoneOutside dripline/root zone		
20	Katsura	10.4	14	7	NA	0%	NoneOutside dripline/root zone		
21	Shore pine	8.1	7	4	NA	0%	NoneOutside dripline/root zone		
		•			Off Site				
A	Norway spruce	25	20	10			NoneOutside dripline/root zone		
В	Norway spruce	18	12	6			NoneOutside dripline/root zone		
С	Douglas-fir	17	12	6			NoneOutside dripline/root zone		
D	Douglas-fir	18	15	8			NoneOutside dripline/root zone		
Е	Douglas-fir	22	16	8			NoneOutside dripline/root zone		
F	Leyland cypress	12	10	5			NoneOutside dripline/root zone		
G	Leyland cypress	12	9	5			NoneOutside dripline/root zone		
Н	Douglas-fir	24	25	13			NoneOutside dripline/root zone		
I	Norway spruce	17	20	10			NoneOutside dripline/root zone		
J	Bay laural	10	6	3			NoneOutside dripline/root zone		
*A calculat	A calculation of the total area (square feet) of proposed disturbance in the outer half of the tree's drip line divided by the total area of the								

<sup>\*</sup>A calculation of the total area (square feet) of proposed disturbance in the outer half of the tree's drip line divided by the total area of the outer half of the dripline (square feet) that cannot exceed 33 percent or 1/3 of the outer dripline.

Site Development impacts are rated as follows:

- None; Site Disturbance, Excavation and fill are beyond the Critical Root Zone
- Minor: Shallow Site Disturbance, will affect less than 15-percent of the Critical Root Zone –Careful excavation required
- Moderate: Site Disturbance will affect less than 30-percent of the Critical Root Zone with depths up to 12-inches Careful excavation required
- Significant: Site Disturbance, Excavation and fill exceed the above limits: Tree not recommended for retention.

Table 4 following summarizes the proposed tree removals.

Table 4 – Tree Removal Summary

Tree	Species	Diameter	Classification	<u>Purpose</u>
<u>No.</u>		<u>(in)</u>		
2	Douglas-fir	30.5	Exceptional	Driveway Expansion
3	Douglas-fir	30.4	Exceptional	Driveway Expansion
				Potential Hazard
4	Douglas-fir	32.5	Exceptional	Within House foot print
8	Flowering cherry	9.5	Not Regulated	Within House foot print
9	Douglas-fir	36.5	Exceptional	W/in Building footprint

Within the Guidelines of MICC as excerpted following, trees 2,4,8 and 9 that are planned for removal meet the allowable removal criteria as demonstrated by demonstrates unavoidable root zone impacts.

19.10.060.A.3 *Retention of exceptional trees*. Development proposals specified under subsection (a)(1) of this section shall retain exceptional trees with a diameter of 24 inches or more. Exceptional trees with a diameter of 24 inches or more that are retained shall be credited towards compliance with the retention requirements of subsection (A)(2) of this section. Removal of exceptional trees with a diameter of 24 inches or more, shall be limited to the following circumstances:

- a. Retention of an exceptional tree(s) with a diameter of 24 inches or more will result in an unavoidable hazardous situation; or
- b. Retention of an exceptional tree(s) with a diameter of 24 inches or more will limit the constructable gross floor area to less than 85 percent of the maximum gross floor area allowed under chapter 19.02 MICC; or,
- c. Retention of an exceptional tree(s) with a diameter of 24 inches or more will prevent creation of a residential lot through a subdivision or short subdivision that is otherwise allowed by this title.

Tree No. 3 is proposed for removal at the request of the client.

#### 10. Replacement Trees

Removal of four trees, 24-36 inches requires replacement at a 3:1 ratio. (See Attached Tree Removal and Replacement Work sheet).

The project landscape architect will develop a tree planting plan including species and placement on the property.

#### 11. Tree Protection

Trees to be retained must be protected per MIC 19.10.080.b. The following guidelines should be employed to protect all retained trees on and off site at this project location.

- Place no construction material or equipment within the protected area of any tree to be retained
- Tree protection fencing consisting of chain link at least 4-feet in height. at the dripline
- "Tree Protection Area- Entrance Prohibited" at 15-foot intervals on the fence
- Prohibiting excavation or compaction of earth or other damaging activities within the barriers unless approved by the Planning Official and supervised by a qualified professional
- Approved landscaping in a protected zone shall be done by light machinery or by hand
- Any exposed roots should be cut cleanly and backfilled with soil as soon as possible
- Root zones should be protected by a 4-inch-deep layer of clean organic material (tree chips, etc.)

Detailed Tree Protection Signage requirements per Mercer Island Requirements are attached in Addendum V.

#### 11. Summary

The tree retention, removal and protection plan described above meets the objectives of the 19.10.010 by retaining and protecting 75-percent of the onsite trees and 100-percent of the trees on adjacent property.

#### 12. 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, the 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 OR ALTERATION OF ANY TREE.

Respectfully Submitted,

Tom Hanson

Thomas M. Hanson, CA, RCA

#### Addenda

- I. Tree Location Map
- Site Development Plan with Tree Protections
  Tree Assessment Summary Table II.
- III.
- Mercer Island Check list IV.
- V. Mercer Island Tree Inventory Form
- Tree Protection Signage Requirements VI.

#### **Glossary of Common Terms**

**DBH** Diameter at breast height, 4 ½' above ground level

**Basal** In the vicinity of the root/trunk connection at ground level

**Bole** The tree stem (**Trunk**)

**Butt Swell** Abnormal swelling at the base of the tree

**Canker** Localized diseased area on stems, roots and branches. Often shrunken and discolored.

**Codominant** Two or more trunks originating from a single main trunk

**Conk** The fruiting body of a fungus

**Critical Root Zone** Variously defined as an area extending to or outside the dripline to

as much as 1-foot per inch or 1.5 inches of trunk diameter at DBH

**Crook** Abrupt bend in a branch or trunk

**Crown** The live branches or live leaves or live needles of a tree

**Crown ratio** The percentage of live green leaves or needles to total height

**Dieback** Notable dead foliage, starting at the end of a branch or the top of a tree

**Dripline** The extent of live limbs from the trunk

**Epicormic** A shoot arising from a dormant bud following exposure to sunlight

**Flat Side** Trunk of the tree has a flattened appearance on the side, sometimes an

indicator of internal decay

**Girdling Root** A root that winds around the stem at ground level

**Included Bark** Bark that is pinched between codominant stems; a common weak

point

**Leader** The central stem tip

**Leaf Spot** Diseased areas on foliage

**Limb Collar** The swelling at the junction of the bole and limb

**Photosynthesis** The process of converting water, nutrients and CO2 to carbohydrates (wood)

**Pitchy** Excessive sap exuding from the tree trunk; often an indicator of stress

**Pruning** The cutting and removal of limbs (**Crown Raising**)

**Rotten knot** Point of the stem where limb removal has allowed pathogen infection and decay (**Black knot**)

**Root Disease** Fungal decay of the root system often causing tree failure

**Taper** The ratio of diameter on different points of a trunk, stem or branch

**Thin Crown** Comparatively low live foliage percentage; often an indicator of root disease

**Topping** Removal of the main stem above live, green limbs

**Trimming** Shortening or cutting of limbs; sometimes called **heading** 

**Trunk Seam** A seam in the trunk, suggests internal decay

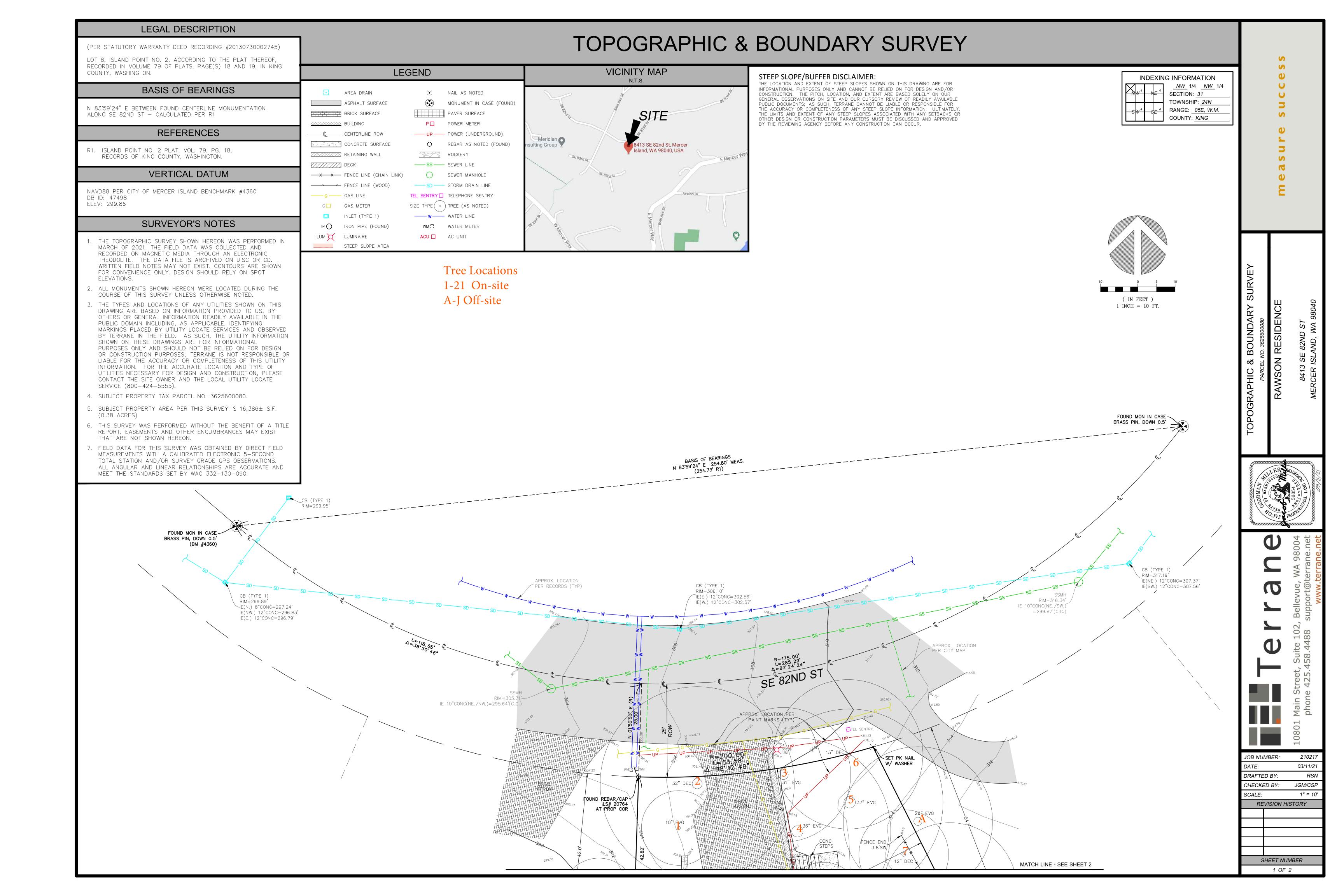
**Viable** A structurally sound and healthy condition, expected to live to normal life span

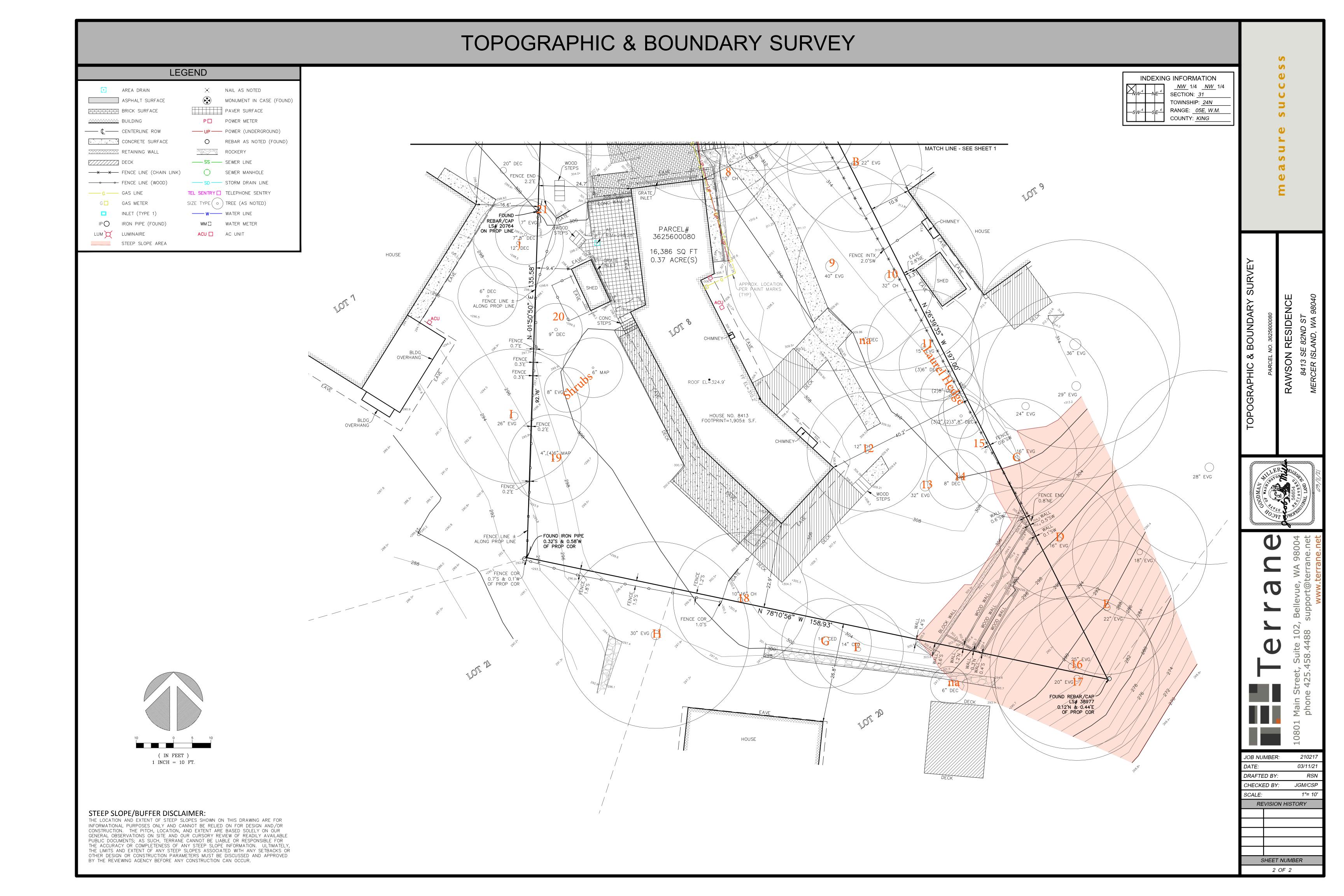
**Vigor** Tree health and growth rate

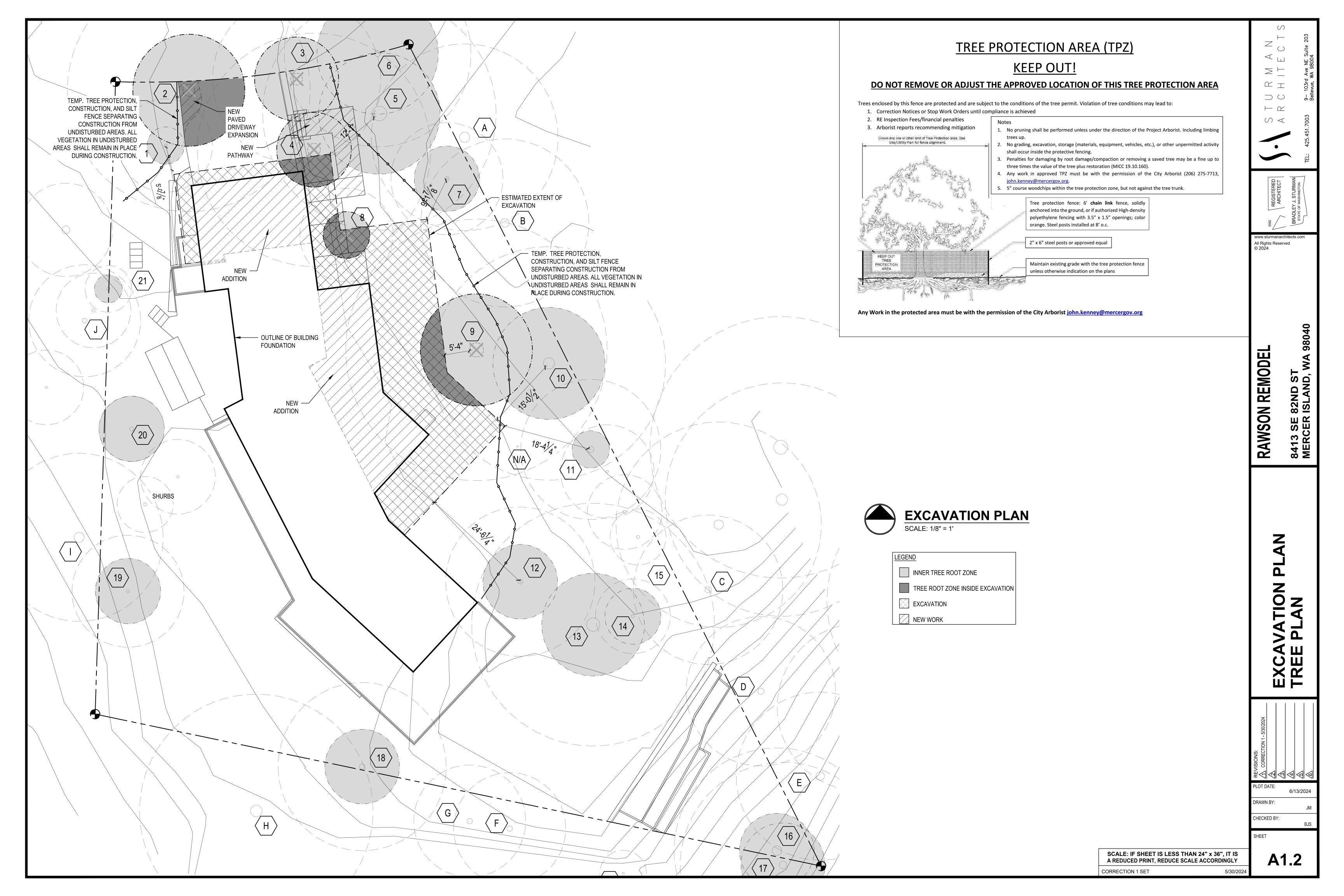
**Vitality** The suitability of the tree for the site.

#### Addenda

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







							Tree	Assess	ment									
Site: Sturman Architectects at 8413 SE 82nd St., Mercer Island, WA Date: 4/15/2022																		
Tree #		Species	DBH	Height	Crown Ratio		Dripl	ine(ft)	ı	Root Zone/Outer Radius	Root Zone/Inne r Radius	,	/igor	Viable	Large Regulated	Exceptional	Disposition	
	Common	Scientific	(inches	(feet)	(%)	N	s	E	W	(feet)	(feet)	Vitality	Structure	Viable				Comments
			1	ı		ı	1			1	On Site	ı	1		· · · · · · · · · · · · · · · · · · ·		1	Τ
1	Shore pine	Pinus contorta 'contorta'	8.1	75	40	8	8	4	8	7	4	Fair	Fair	Yes			Retain	
2	Douglas-fir	Psuedotsuga menziesii	30.5	120	60	26	20	20	26	23	12	Good	Good	Yes	✓	✓	Remove	2' West of driveway
3	Douglas-fir	Psuedotsuga menziesii	30.4	130	60	28	12	16	16	18	9	Good	Fair	Yes	✓	✓	Remove	Perched above driveway, minor pitching
4	Douglas-fir	Psuedotsuga menziesii	32.5	130	60	12	22	12	14	15	8	Good	Good	Yes	✓	✓	Remove	Perched above driveway
5	Douglas-fir	Psuedotsuga menziesii	37.5	130	70	34	26	20	22	26	13	Good	Good	Yes	✓	✓	Retain	
6	Beech	Fagus sylvatica	15.5	70	80	32	16	24	28	25	13	Good	Good	Yes	✓		Retain	
7	Japancese maple	Acer palmatum	11.1	22	80	16	14	20	4	14	7	Good	Good	Yes	✓		Retain	
8	Flowering cherry	Prunus sp.	9.5	14	80	14	10	6	10	10	5	Good	Fair	Yes			Remove	Poor pruning
9	Douglas-fir	Psuedotsuga menziesii	36.5	125	50	30	22	26	18	24	12	Good	Good	Yes	✓	✓	Retain	
10	Bitter cherry	Prunus emarginata	28.9	70	70	28	18	22	26	24	12	Good	Fair	Yes	✓		Retain	3 codominants above 5-feet
11	Shore pine	Pinus contorta 'contorta'	15.8	65	50	12	8	0	14	9	4	Good	Fair	Yes	✓		Retain	asymetric
12	Flowering cherry	Pruus sp.	12.2	20	70	17	12	14	19	16	8	Good	Good	Yes	✓		Retain	
13	Douglas-fir	Psuedotsuga menziesii	34.4	110	60	24	24	14	24	22	11	Good	Good	Yes	✓	✓	Retain	
14	Flowerign cherry	Prunus sp.	8.1	18	60	12	14	12	10	12	6	Good	Good	Yes			Retain	
15	Douglas-fir	Psuedotsuga menziesii	29.7	110	60	19	19	16	16	18	9	Good	Good	Yes	✓		Retain	
16	Douglas-fir	Psuedotsuga menziesii	24.5	105	60	24	14	16	12	17	8	Fair	Good	Yes	✓		Retain	Flat top
17	Douglas-fir	Psuedotsuga menziesii	19.5	55	40	14	26	30	0	18	9	Fair	Fair	Yes	✓		Retain	
18*	Cherry	Prunus avium	13.9	44	50	14	16	15	15	15	8	Good	Good	Yes	✓		Retain	
19*	Vine maple	Acer circinatum	7.6	25	80	16	14	14	12	14	7	Good	Good	Yes			Retain	
20	Katsura	Cercidiphyllum sp.	10.4	20	50	14	12	14	14	14	7	Good	Good	Yes	✓		Retain	
21	Shore pine	Pinus contorta 'contorta'	8.1	40	30	8	6	10	3	7	3	Good	Good	Yes			Retain	
										C	Off Site							
A	Norway spruce	Picea abies	25	112	60	20	20	26	14	20	10	Good	Good	Yes	<b>√</b>		Retain	
В	Norway spruce	Picea abies	18	100	40	10	12	12	14	12	6	Fair	Good	Yes	✓		Retain	
С	Douglas-fir	Psuedotsuga menziesii	17	100	30	0	16	20	12	12	6	Fair	Fair	Yes	✓		Retain	Asymetric, suppressed
D	Douglas-fir	Psuedotsuga menziesii	18	90	30	18	10	18	14	15	8	Good	Fair	Yes	✓		Retain	

	Tree Assessment																	
	Site: Sturman Architectects at 8413 SE 82nd St., Mercer Island, WA Date: 4/15/2022																	
Tree #		Species	DBH	Height	Crown Ratio		Dripl	line(ft)		Root Zone/Outer Radius	Root Zone/Inne r Radius		Vigor	Viable	Large Regulated	Exceptional	Disposition	
	Common	Scientific	(inches)	(feet)	(%)	N	S	E	W	(feet)	(feet)	Vitality	Structure	Viable				Comments
										C	n Site							
E	Douglas-fir	Psuedotsuga menziesii	22	110	40	16	16	14	18	16	8	Good	Good	Yes	✓		Retain	
F	Leyland cypress	Cupressus x leylandii	12	30	90	4	16	12	8	10	5	Good	Good	Yes	✓		Retain	
G	Leyland cypress	Cupressus x leylandii	12	30	90	14	4	14	4	9	5	Good	Good	Yes	✓		Retain	
Н	Douglas-fir	Psuedotsuga menziesii	24	120	80	26	24	30	20	25	13	Good	Good	Yes	✓		Retain	
I	Norway spruce	Picea abies	17	105	70	22	20	22	16	20	10	Good	Good	Yes	✓		Retain	
J	Bay laural	Laurus nobilis	10	14	30	6	10	4	3	6	3	Fair	Fair	Yes	✓		Retain	Severely pruned
	* multip	le stems converted to single																

# **CITY OF MERCER ISLAND**

#### **COMMUNITY PLANNING & DEVELOPMENT**

9611 SE 36TH STREET | MERCER ISLAND, WA 98040

PHONE: 206.275.7605 | <u>www.mercergov.org</u>

Inspection Requests: Online: <a href="https://www.mybuildingpermit.com">www.mybuildingpermit.com</a> VM: 206.275.7730



### TREE SUBMITTAL CHECKLIST

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

1.	The	Mercer Island Tree Inventory Form						
	Prov	ide the City's Mercer Island Tree Inventory Form						
2.	Arbo	orist report/tree inventory						
		ide an Arborist report, prepared by a qualified Arborist. Include the following information in the rist report.						
	1.	·						
	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.							
	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.							
	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).						
		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 the critical root zone of Large trees on adjacent properties if driplines extend over the
	Э.	subject property line.
	4.	Trees labeled corresponding to the tree inventory numbering system on the Mercer Island Tree
		Inventory Form.
	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.
	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.	Repl	anting plan
	Prov	ide the Replanting plan showing proposed locations of any required replacement trees.
PEEF	REVI	EW AND CONFLICT OF INTEREST
•		riew of the tree permit application by a qualified arborist may be required to verify the adequacy rmation and analysis. The applicant shall bear the cost of the peer review.
		rborist may require the applicant retain a replacement qualified arborist or may require a peer ere the City Arborist believes a conflict of interest may exist.
For e	xamr	ole, if an otherwise qualified arborist is employed by a tree removal company and prepares the
	-	eport for a development proposal, a replacement qualified arborist or peer review may be
requ		
ΔRR	ORIST	QUALIFICATION
For t		eviews associated with a development proposal, a qualified arborist must have
•		inimum of three (3) years' experience working directly with the protection of trees during
_		truction
•		e experience with the likelihood of tree survival after construction
•		ble to prescribe appropriate measures for the preservation of trees during land development
_		ree Risk Assessment Qualification
Ш		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;
		Society of American Foresters (SAF) Certified Forester for Forest Management Plans;
ADD	ITION	AL INFORMATION
		Information. The City Arborist or Code Official may require additional documentation, plans, or as needed to ensure compliance with applicable City regulations.
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# CITY OF MERCER ISLAND

#### **COMMUNITY PLANNING & DEVELOPMENT**

9611 SE 36TH STREET | MERCER ISLAND, WA 98040

PHONE: 206.275.7605 | <u>www.mercergov.org</u>



# TREE INVENTORY & REPLACEMENT SUBMITTAL INFORMATION

## **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** <u>Right of Way Trees</u>- 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:	
•	

#### TREE REPLACEMENT

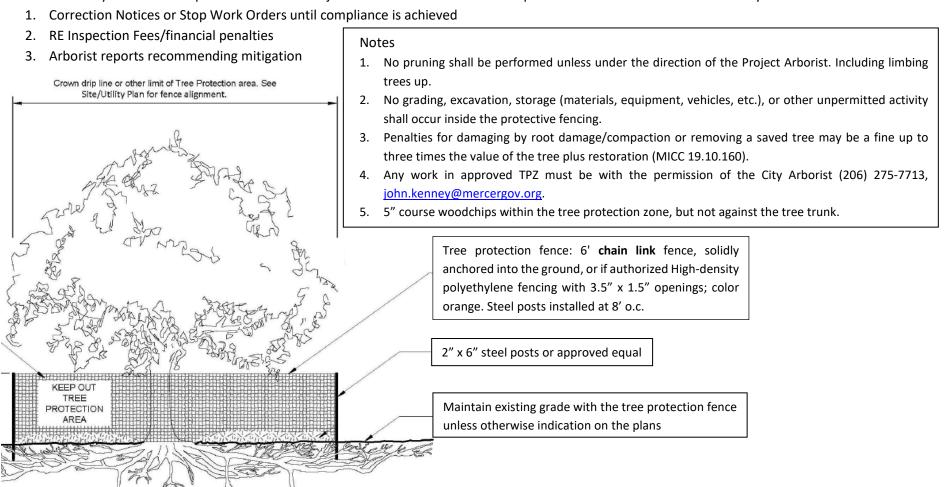
Tree replacement- removed trees must be replaced based on the ratio in the table below. Replacement trees shall be conifers at least six feet tall and or deciduous at least one and one-half inches in diameter at base.

			Number of Tree
	Tree	Number of	Required for
Diameter of Removed Tree (measured 4.5'	replacement	Trees Proposed	Replacement Based
above ground)	Ratio	for Removal	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>=0=4: =</b> 05	DEDI A CENAENITO	

# TREE PROTECTION AREA (TPZ) KEEP OUT!

#### DO NOT REMOVE OR ADJUST THE APPROVED LOCATION OF THIS TREE PROTECTION AREA

Trees enclosed by this fence are protected and are subject to the conditions of the tree permit. Violation of tree conditions may lead to:



Any Work in the protected area must be with the permission of the City Arborist john.kenney@mercergov.org