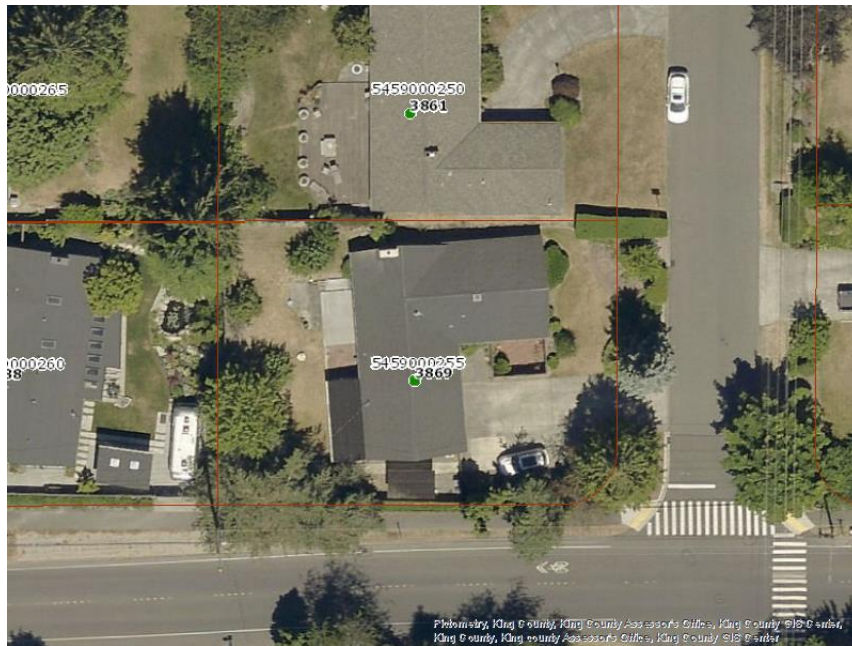




ARBOR INFO LLC

2406 N Castle Way Brier, WA, 98036

**Tree Assessment
For
Chen Residence
At
3869 80th Ave SE
Mercer Island, Washington**



**Date
Rev 3/3/2020**

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- I. Tree Location Map
- II. Tree Assessment Summary Table
- III. Mercer Island Check list
- IV. Mercer Island Tree Inventory Form
- V. Glossary of Common Terms
- VI. Qualifications of Assessor

1. Introduction

I was contacted by Chaohua Chang, CHC Architects to describe and assess the condition, viability and protection of trees at the Chen residence, 3869 – 80th 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:

Chaohua Chang
CHC Architects
13301 SE 79th Place Unit A205
New Castle, WA 98509

chcarch@gmail.com

4. Assignment, Purpose and Use of Report

The assignment is to describe and assess the condition and viability of onsite and potentially affected off-site trees and to provide protection recommendations in conformance with the City of Mercer Island “Tree Submittal Check List”, Attached.

5. Limits of Assignment

The assignment is limited to the information gathered during the site visit August 21, 2019 (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.

It is assumed herein that the subject trees 1-13, referenced on the attached site map and tree assessment form stand on the subject property. Trees A and B are assumed to be offsite. A site plan indicating a proposed development plan was provided and is included in the Addenda with tree locations noted.

6. Site Description

3869 – 80th Ave SE, Mercer Island, WA, King County Parcel No. 5459038695. The subject property consists of a single-family residence on 10,162 square feet.

A new residence is planned to be built after removal of the existing house.

7. Methodology

I visited the site on August 21, 2019 and assessed the condition of the subject trees. 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 condition, or vigor:

The ratings used are:

- Good: Tree has no significant defects and is expected to survive without disturbance to its normal life expectancy.
- Fair: Tree has a defect either fungal decay or mechanical or over maturity that renders it unstable or not likely to survive to normal life expectancy
- Poor Tree has significant defects or mechanical issues or is senescent that render it not likely to survive ten years.

Viability is a term indicating whether the tree can be expected to survive to its normal life span or at least another 10-years.

8. Tree Description

Refer to the attached Tree Assessment Summary Form. A total of thirteen on-site trees and two off-site over 6-inches in diameter were found and located on the attached Tree Location Map. All trees are defined as “large trees” by the City of Mercer Island.

Tree No. 1 is indicated by the client to be removed. This tree has been extensively topped and had significant bole decay. Of the remaining 12 trees on site, Tree No. 13 is recommended for removal due to extensive bole decay. Removal of trees No. 1 and No. 13 will have no effect on the remaining trees as these are not part of a grove or near adjacent properties.

Tree No. 2 has also been extensively topped and has bole decay but appears to have developed reaction wood sufficient to maintain its viability.

All of the trees on site have been pruned to varying degrees but could all use a proper remedial pruning to maintain health and structure and repair snow damage.

The offsite trees labeled A and B are in good condition and should not be affected by the proposed home construction.

On site trees numbered 4 and 10 and offsite trees A and B exceed 24-inches in diameter.

9. Root Zone Impacts

The limits of disturbance are determined on a case by case basis for each tree in consideration of the tree size, estimate of the extent of the root zone and consideration of the planned root zone disturbance. Distances from the face of each tree to the excavation limit were measured by hand.

Table 1 – Root Zone Impacts

Chen Residence-- Root Zone Impacts								
			Diameter	Facing Dripline	Measured Distance to Excavation Limit	Excavation Type	Status	Root Zone impact
1	White Birch	<i>Betula Papyrifera</i>	7.8	NA	NA	Rock Wall	To be Removed	NA
2	Flowering Cherry	<i>Prunus sp.</i>	10.2	7'	33'9"	Porch Support	Retain	None
3	Blue Spruce	<i>Picea pungens</i>	15.6	12'	6.9"	Driveway	Retain	Negligible
4	Western Red Ceda	<i>Thuja Plicata</i>	24.2	16'	7'9"	Driveway	Retain	Negligible
5	Crab Apple	<i>Malus coronaria</i>	8.8	5'	11'0"	Driveway	Retain	None
6	Austrian Pine	<i>Pinus nigra</i>	11.4	8'	11'0"	House Footing	Retain	Negligible
7	Arborvitae	<i>Arborvitae</i>	6.1	4'	12'9"	House Footing	Retain	Negligible
8	Arborvitae	<i>Arborvitae</i>	6	4'	13'5"	House Footing	Retain	Negligible
9	Arborvitae	<i>Arborvitae</i>	8	4'	14'2"	House Footing	Retain	Negligible
10	Scots Pine	<i>Pinus sylvestris</i>	24.6	14'	7'7"	House Footing	Retain	Minor, under 15%
11	Scots Pine	<i>Pinus sylvestris</i>	20.5*	14'	24'7"	House Footing	Retain	None
12	Red Maple	<i>Acer rubra</i>	13.4*	16'	26'2"	House Footing	Retain	None
13	Flowering Cherry	<i>Prunus sp.</i>	6.3	NA	NA	NA	To be Removed	NA
A**	Grand Fir	<i>Abies grandis</i>	24	16'	25'+	NA	Retain	None
B**	Western Red Ceda	<i>Thuja plicata</i>	28	18'	25'+	NA	Retain	None
* Multiple Stems								

10. Discussion

Refer to the attached City of Mercer Island “Trees and Construction” document. This document describes tree removal permit requirements and protection measures and is included herein. A permit will be required to remove Tree No. 1. A replacement tree is required to be planted on the property, preferably of the same species. Birch trees similar to this tree have recently been susceptible to bronze birch borer infestations. I suggest that the replacement tree be selected from lists of trees suitable for residential sites, such as the City of Kirkland Tree List, attached.

Root zone impacts to the retained trees will be minimal if at all, as indicated in Table 1 above.

11. Summary

Subject trees 2-12 are viable based on their size and condition. These could all benefit from remedial pruning. Trees 1 and 13 are heavily decayed and likely not viable. Trees A and B are viable.

Tree protections in addition to city regulations should include:

Tree Protections during construction should include:

- Certified Arborist on site during excavation activities within the defined root zone of all trees.
- All trees to be retained are to be fenced at the edge of the recommended tree protection zone with 6-foot high cyclone type fencing.
- Utility lines should be bored. Bore access pits to be developed with 18” buckets or hand dug.
- Retaining wall footings to be minimally deep, no more than 12-inches.
- Tree roots over 1-1/2 inches in diameter encountered in all excavations are to be cut cleanly to the trench wall with clean sharp tools. Roots to be covered with soil or wetted burlap if they must remain exposed.
- Supplemental irrigation is to be provided during summer months (generally June-September) for all trees in the construction zones.
- Recommended protected tree root zones are to be covered with 4-inches of hog fuel at all times. Where machinery access is needed, the root zones should be covered with 12-inches of hog fuel, plywood or steel sheets.
- Stumps for trees to be removed are to be ground out (not excavated).

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, 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,



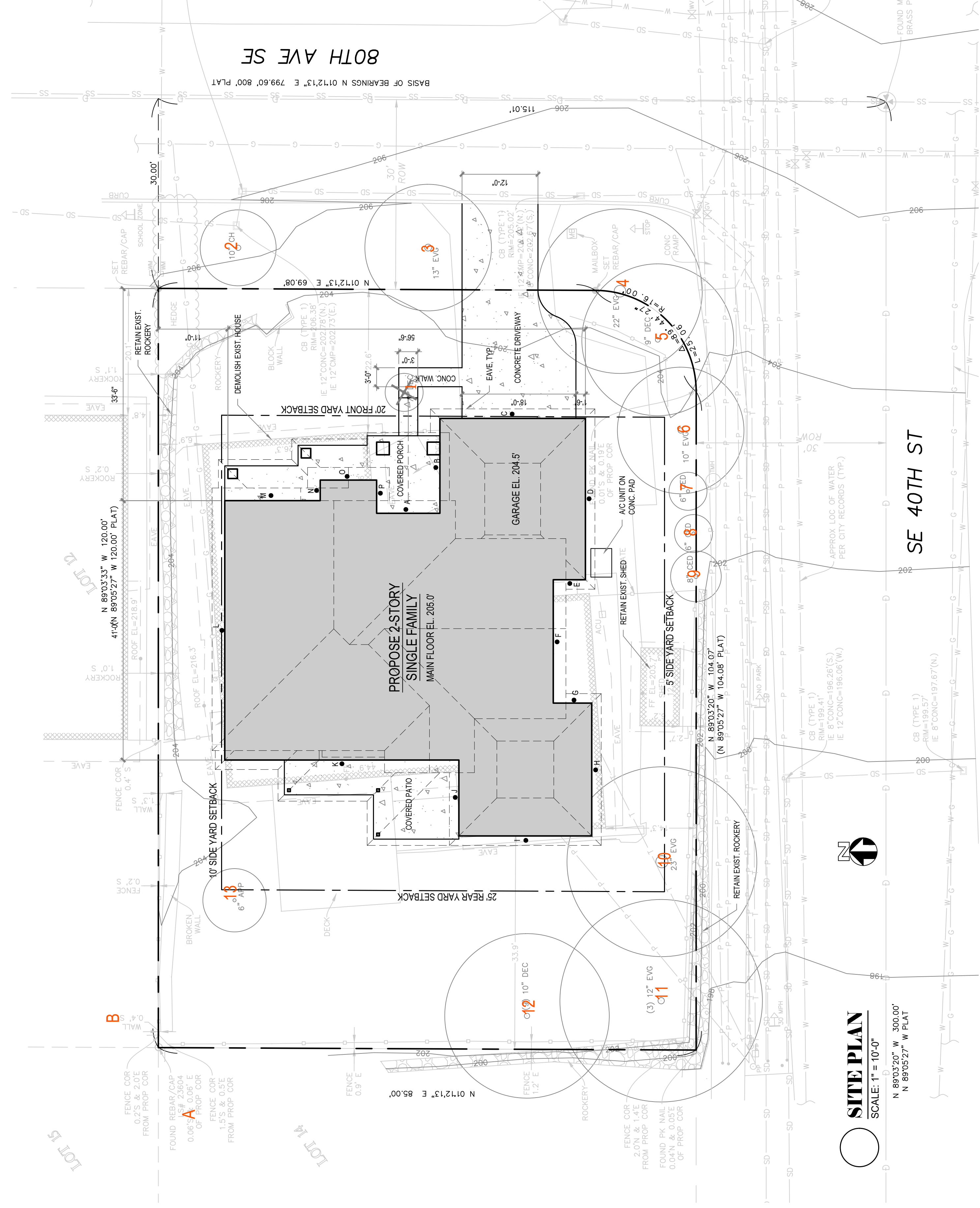
Thomas M. Hanson, CF, RCA

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AVERAGE BUILDING ELEVATION

#	WALL LENGTH	ENST. ELEVATION
A	10.0	203.6
B	19.0	203.6
C	29.0	203.6
D	29.0	203.6
E	18.1	203.6
F	18.1	203.6
G	21.0	203.6
H	21.0	203.4
I	12.0	203.4
J	37.0	203.4
K	41.0	203.6
L	15.1	203.8
M	3.3	203.8
N	8.9	203.8
O	8.9	203.8
P	5.3	203.8
A.B.E.		

A.B.E. = (W1 x E1 + W2 x E2 + ...) / (W1 + W2 + ...) = 203.6
 MAX. STRUCTURAL HT. ALLOWED = 203.6 + 30 = 233.6' (SEE SHEET A5, A6)



SITE PLAN
 SCALE: 1" = 10'-0"
 N 89°03'25" W 300.00'
 N 89°03'27" W PLAT



SITE PLAN
 SCALE: 1" = 10'-0"
 N 89°03'20" W 104.07'
 N 89°03'27" W 104.08' PLAT

SITE PLAN
 SCALE: 1" = 10'-0"
 N 89°03'33" W 120.00'
 N 89°05'27" W 120.00' PLAT

13301 SE 79th Pl Unit A205
 NEWCASTLE WA 98659
 (M) 425.765.3882
 (O) 425.988.3818
 chcarch@gmail.com

8666 REGISTERED ARCHITECT
 CHAROLAN CHANG
 STATE OF WASHINGTON

CHEN RESIDENCE
 3869 80TH AVE SE MERCER ISLAND WA 98040

NUMBER	DATE	DESCRIPTION OF REVISIONS
	06/25/2017	PERMITS PLANS

JOB NUMBER _____
 SHEET NUMBER _____

A0

CITY STAMP

Tree Protection Assessment Form

Date: 8/22/2019

Site:

Inspector: Tom Hanson

Tree #	Species		DBH (inches)	Height (feet)	Crown Ratio (%)	Drip Line(ft)			Vigor	Viable	Class	Disturbance LOD(ft)	Defects	Recommendations
	Common	Scientific				N	S	E						
On Site														
1	White Birch	<i>Betula Papyrifera</i>	7.8	10	40	3	5	4	4	Fair	No	4	Bole decay, Poor top sprouting	Planned for Removal
2	Flowering Cherry	<i>Prunus sp.</i>	10.2	12	40	7	7	7	7	Fair	Yes	7	Bole Decay	Monitor
3	Blue Spruce	<i>Picea pungens</i>	15.6	48	80	10	12	12	8	Good	Yes	11		Protect, Retain
4	Western Red Cedar	<i>Thuja Plicata</i>	24.2	46	80	16	16	16	16	Good	Yes	16		Protect, Retain
5	Crab Apple	<i>Malus coronaria</i>	8.8	18	90	5	14	6	12	Fair	Yes	9	Multiple sprouts, hangs over St.	Protect, Retain
6	Austrian Pine	<i>Pinus nigra</i>	11.4	24	40	8	14	12	10	Fair	Yes	11	Utility pruning	Protect, Retain
7	Arborvitae	<i>Arborvitae</i>	6.1	20	100	4	4	4	4	Good	Yes	4		Protect, Retain
8	Arborvitae	<i>Arborvitae</i>	6	20	100	4	4	4	4	Good	Yes	4		Protect, Retain
9	Arborvitae	<i>Arborvitae</i>	8	20	100	4	4	4	4	Good	Yes	4		Protect, Retain
10	Scots Pine	<i>Pinus sylvestris</i>	24.6	22	70	14	20	14	14	Fair	Yes	16	2 Codominants, hangs over St.	Protect, Retain
11	Scots Pine	<i>Pinus sylvestris</i>	20.5*	24	70	14	16	14	12	Fair	Yes	14	3 Codominants, hangs over St.	Protect, Retain
12	Red Maple	<i>Acer rubra</i>	13.4*	22	80	16	14	16	8	Fair	Yes	14	Poorly pruned	Protect, Retain
13	Flowering Cherry	<i>Prunus sp.</i>	6.3	16	70	4	4	4	4	Poor	No	4	Lower trunk decay	Remove
Off Site														
A**	Grand Fir	<i>Abies grandis</i>	24	80	80	4	8	16	14	Good	Yes	11		Protect, Retain
B**	Western Red Cedar	<i>Thuja plicata</i>	28	75	80	18	18	18	16	Good	Yes	18		Protect, Retain

CITY OF MERCER ISLAND

COMMUNITY PLANNING & DEVELOPMENT

9611 SE 36TH STREET | MERCER ISLAND, WA 98040

PHONE: 206.275.7605 | www.mercergov.org

Inspection Requests: Online: 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 the critical root zone of Large trees on 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.
- 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. 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.

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MERCER ISLAND 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

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: _____

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.

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		
TOTAL TREE REPLACEMENTS			

**no replacement tree is needed if the tree fits all of the following;
Less than 10 inches in diameter, not an exceptional tree, and not a replacement tree from another tree permit. **

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 span 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.



ARBOR INFO LLC

Tom Hanson

Credentials

- International Society of Arboriculture -- *Certified Arborist #23136* Exp. 12/2020
- American Society of Consulting Arborists -- *Registered Consulting Arborist #499* Exp. 12/2020
- International Society of Arboriculture -- *Tree Risk Assessment Qualified* Exp. 7/2020
- Society of American Foresters -- *Certified Forester #951* Exp. 11/2020
- Real Estate Designated/Managing Broker – State of Washington #11534 Exp. 3/2019

Introduction

Forty-eight years of experience as a consulting forester in conjunction with 30 years as a consulting arborist formerly with International Forestry Consultants, Inc. and American Forest Management Inc. Numerous residential and commercial hazard tree assessments; developed and administered tree protection plans and evaluated many tree and shrub trespass and damage claims. Significant experience as an expert witness in vegetative valuation cases.

Appraisals of forests, forest land and rural land throughout Washington State to the standards of the Appraisal Foundation and Uniform Standards of Federal Land Acquisition.

Urban Forestry Experience Examples

- Administered street tree inventories for several cities in the Greater Seattle area. Developed spreadsheet solutions for data input to unique GIS infrastructure for each City. Developed hazard tree criteria and conducted or assisted with field inspections on street and park trees.
- Assisted in development of the Forest Land Assessment Training method (FLAT) for use by municipal urban forest and park employees.
- On call arborist for the City of Everett in response to City personnel and citizen concerns regarding public and private street trees.
- Prepared an urban forest management plan, FLAT inventory and tree risk assessment for Sudden Valley Homeowners Association and the Port Madison Water District.
- Prepared a forest management plan for the City of Bellingham Galbraith Mountain acquisitions.

Tom Hanson ArborInfo LLC

- Routinely assists developers, construction managers and real estate brokers with tree protection plans.
- Testified in court on numerous occasions for plaintiffs and defendants in tree trespass, tree condition and valuation issues.
- Reviewer for the Council of Tree and Landscape Appraisers, Guide for Plant Appraisal, 9th and 10th editions.

Representative Clients

Numerous Small Private Forest Landowners, Residential Homeowners, Attornys

Numerous Home and Commercial Construction Companies, and Architectural Firms

Municipalities and Schools

- City of Everett
- City of Sammamish
- City of Snohomish
- Town of Steilacoom
- City of Federal Way
- City of Bellingham
- Edmonds School District
- Sudden Valley Homeowners Association
- Port Madison Water District

Insurance Companies

- Allstate
- State Farm
- USAA
- CNA
- Farmers
- Liberty Mutual

Service Activities

- Society of American Foresters, State Chair and National Board of Directors
- University of Washington College of Forest Resources Alumni Association, President
- Washington Forest Protection Association, Board of Directors
- Practicing Foresters Institute, and the Black Mountain Forestry Center
- Fellow, Society of American Foresters
- President's Award, Outstanding Field Forester, Society of American Foresters
- City of Brier Planning Commission.