



ARBOR SCIENCE TREE CARE

SPECIALIZING IN SUSTAINABLE TREE CARE SOLUTIONS

arborsciencetreecare.com

360.521.0249

WA# ARBORST838DT

OR CCB# 216351

May 2nd 2025

Pacific Lifestyle Homes

Reserve at Green Mountain

Parcel# 173192000

2625 NE Goodwin Rd

Camas, WA 98607

RE: Tree protection plan and tree inventory.

Tree, Vegetation and Soil Protection During Construction:

During construction. Prior to initiating tree removal on the site, soils, vegetated areas and individual trees to be preserved shall be protected from potentially damaging activities pursuant to the following standards.

A. Placing Materials Near Trees. No person may conduct any activity within the protected area of any tree designated to remain, including, but not limited to, parking equipment, placing solvents, storing building material and soil deposits and dumping concrete washout.

1. During construction, no person shall attach any object to any tree designated for protection.

B. Protective Barrier. Before development, land clearing, filling or any land alteration for which a Tree Removal Permit is required, the applicant:

1. Shall erect and maintain readily visible protective tree fencing along the outer edge and completely surrounding the protected area of all protected trees or groups of trees that are to remain undisturbed. Fences shall be constructed of chain link and at least four feet high, unless other type of fencing is authorized by the planning official.

2. Shall prohibit excavation or compaction of earth or other potentially damaging activities within the barriers.

3. Shall maintain the protective barriers in place until the planning official authorizes their removal or a final certificate of occupancy is issued, whichever occurs first
4. Shall ensure that any landscaping done in the protected zone subsequent to the removal of the barriers shall be accomplished with light machinery or hand labor. No turf or lawn areas are to be installed within protected area.
5. In addition to the above, the planning official may require the following:
 - Cover with mulch to a depth of at least six (6) inches or with plywood or similar material the areas adjoining the critical root zone of a tree in order to protect roots from damage caused by heavy equipment.
 - Minimize root damage by excavating a two (2) foot deep trench, at edge of critical root zone, to cleanly sever the roots of trees to be retained.
 - Have corrective pruning performed on protected trees in order to avoid damage from machinery or building activity.
 - Maintain trees throughout construction period by watering and fertilizing if recommended by Arborist.

C. Grade.

1. The grade shall not be elevated or reduced within the critical root zone of trees to be preserved without the planning official's authorization. The planning official may allow coverage of up to one half of the area of the tree's critical root zone with light soils (no clay) to the minimum depth necessary to carry out grading or landscaping plans, if it will not imperil the survival of the tree. Aeration devices may be required to ensure the tree's survival.
2. If the grade adjacent to a preserved tree is raised such that it could slough or erode into the tree's critical root zone, it shall be permanently stabilized to prevent suffocation of the roots.
3. The applicant shall not install an impervious surface within the critical root zone of any tree to be retained without the authorization of the planning official. The planning official may require specific construction methods and/or use of aeration devices to ensure the tree's survival and to minimize the potential for root induced damage to the impervious surface.
4. To the greatest extent practical, utility trenches shall be located outside of the critical root zone of trees to be retained. The planning official may require that utilities be tunneled under the roots of trees to be retained if the planning official determines that trenching would significantly reduce the chances of the tree's survival.
5. Trees and other vegetation to be retained shall be protected from erosion and sedimentation. Clearing operations shall be conducted so as to expose the smallest practical area of soil to erosion for the least possible time. To control erosion, shrubs, ground cover and stumps shall be maintained on

the individual lots, where feasible. Where not feasible appropriate erosion control practices shall be implemented pursuant to best management practices within industry standards.

D. Directional felling. Directional felling of trees shall be used to avoid damage to trees designated for retention and shall be conducted so as to expose the smallest practical area of soil to erosion for the least possible time. To control erosion, shrubs, ground cover and stumps shall be retained where feasible. Where not feasible, appropriate erosion control practices shall be implemented pursuant to

E. Additional requirements. The planning official or Arborist may require additional tree, vegetation and soil protection measures which are consistent with accepted best management practices.

Tree density requirements:

A. Camas municipal code section 18.13.052 requires a minimum density per net acre of 20 tree units per acre. This density may consist of existing trees or replacement trees. This 11.67 acre site requires 233.4 tree units. This sites current density is 999 tree units, with the proposed removals calculating out to 326 tree units. This leaves a net density 673 tree units to be preserved and protected.

Diameter at Breast Height "dbh"	Tree Units	Diameter at Breast Height "dbh"	Tree Units
1" to 5"	1	31" to 32"	12
6" to 12"	2	33" to 34"	13
13" to 14"	3	35" to 36"	14
15" to 16"	4	37" to 38"	15
17" to 18"	5	39" to 40"	16
19" to 20"	6	41" to 42"	17
21" to 22"	7	43" to 44"	18
23" to 24"	8	45" to 46"	19
25" to 26"	9	47" to 48"	20
27" to 28"	10	49" to 50"	21
29" to 30"	11	For larger trees, allow a ½ tree unit for every additional inch of dbh.	

Specific Trees Impacted and Recommendations:

A. Tree # 10974 White Oak

The sidewalk placement will come close to outer edge of the drip line on the the NW side of the root zone. It is likely that roots will be encountered during excavation for sidewalk footing. Assumably the

root size will be < 1" dia at this distance. Any roots encountered will need to be severed cleanly with a sharp pruning tool. The impact on the tree will be negligible.

B. Tree # 20281 White Oak

This tree's critical root zone will encroach into the complete Western edge of a home lot by < 5'. This encroachment is not of concern as lot improvements or grading will not happen along the lot line.

C. Tree # 20298 Douglas-fir

The proposed community nature trail will skirt along the N NE edge of the root zone. Impact will be minimal, this tree is part of a collective stand and will receive resources from the root network of adjacent trees.

D. Tree # 20299 Douglas-fir

Encroachment is minimal, however this tree has a declining top which can be indicative of decline or environmental stresses such as drought stress, root loss or inhibition of uptake.

This tree may be considered for removal.

E. Tree #S 20313-20326 Douglas-fir's and White Oak

This group's impact will be beneficial as the existing black top road will be removed during development. Removal of asphalt should be delicate to not disturb the roots just below the asphalt. It is likely that the roots will immediately below the asphalt.

After removal 2-4" of composted mulch needs to be placed over the exposed areas. This placement should happen immediately after asphalt removal so the roots are not exposed to sunlight and air current causing desiccation.

F. Tree # 20326 Douglas-fir

The sidewalk placement will come close to outer edge of the drip line on the the South side of the root zone. It is likely that roots will be encountered during excavation for sidewalk footing. Assumably the root size will be < 1" dia at this distance. Any roots encountered will need to be severed cleanly with a sharp pruning tool. The impact on the tree will be negligible.

Placement of mulch would be beneficial during landscaping to prevent desiccation as the tree is at the Southern edge of the stand.

G. Tree # 20343 White Oak

The sidewalk placement will cover < 5' on the outer edge of the drip line on the the SW side of the root zone. It is likely that roots will be encountered during excavation for sidewalk footing. Assumably the root size will be < 1" dia at this distance. Any roots encountered will need to be severed cleanly with a sharp pruning tool. The impact on the tree will be negligible.

This tree's canopy is highly phototropic to the South which means its canopy may extend beyond its critical root zone. This specimen is also part of a collective oak stand which will receive benefit from the group's root system network.

Placement of mulch would be beneficial during landscaping to prevent desiccation as the tree is at the Southern edge of the stand.

Brandon Cheney
ISA Certified Arborist
Tree Risk Assessment Qualified
PN-7163A TRAQ

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Tree #	Species	Common Name	DBH"	Tree Units	Retention Y/N	Impacted by development	Health	Comments *see appendix for tree specific conditions of concerns
10937	<i>fraxinus latifolia</i>	Ash	7	2	N	N	NA	
10938	<i>p.menziesii</i>	Douglas-fir	9	2	Y	N	Satisfactory	
10943	<i>prunus sp.</i>	Cherry	11	2	Y	N	Satisfactory	
10944	<i>p.menziesii</i>	Douglas-fir	25	9	Y	N	Satisfactory	
10945	<i>p.menziesii</i>	Douglas-fir	24	8	Y	N	Satisfactory	
10948	<i>p.menziesii</i>	Douglas-fir	14	3	Y	N	Satisfactory	
10949	<i>p.menziesii</i>	Douglas-fir	22	7	Y	N	Satisfactory	
10951	<i>p.menziesii</i>	Douglas-fir	19	6	Y	N	Satisfactory	
10952	<i>p.menziesii</i>	Douglas-fir	22	7	Y	N	Satisfactory	
10954	<i>p.menziesii</i>	Douglas-fir	29	11	Y	N	Satisfactory	
10960	<i>p.menziesii</i>	Douglas-fir	22	7	Y	N	Satisfactory	
10961	<i>p.menziesii</i>	Douglas-fir	29	11	Y	N	Satisfactory	
10964	<i>p.menziesii</i>	Douglas-fir	10	2	Y	N	Satisfactory	
10965	<i>p.menziesii</i>	Douglas-fir	10	2	Y	N	Satisfactory	
10967	<i>p.menziesii</i>	Douglas-fir	23	8	Y	N	Satisfactory	
10968	<i>p.menziesii</i>	Douglas-fir	29	11	Y	N	Satisfactory	
10969	<i>p.menziesii</i>	Douglas-fir	34	13	N	N		
10970	<i>p.menziesii</i>	Douglas-fir	30	11	N	N		
10971	<i>p.menziesii</i>	Douglas-fir	26	9	N	N		
10972	<i>p.menziesii</i>	Douglas-fir	26	9	N	N		
10973	<i>p.menziesii</i>	Douglas-fir	36	14	N	N		
10975	<i>p.menziesii</i>	Douglas-fir	28	10	N	N		
10976	<i>p.menziesii</i>	Douglas-fir	29	11	N	N		
10977	<i>p.menziesii</i>	Douglas-fir	13	3	N	N		
10979	<i>p.menziesii</i>	Douglas-fir	14	3	Y	N	Satisfactory	
10980	<i>p.menziesii</i>	Douglas-fir	18	5	Y	N	Satisfactory	
11036	<i>p.menziesii</i>	Douglas-fir	20	6	Y	N	Satisfactory	
11038	<i>p.menziesii</i>	Douglas-fir	15	4	Y	N	Satisfactory	
11040	<i>p.menziesii</i>	Douglas-fir	39	16	Y	N	Satisfactory	
11041	<i>p.menziesii</i>	Douglas-fir	23	8	Y	N	Satisfactory	
11043	<i>p.menziesii</i>	Douglas-fir	7	2	Y	N	Satisfactory	
11044	<i>p.menziesii</i>	Douglas-fir	20	6	Y	N	Satisfactory	
11047	<i>p.menziesii</i>	Douglas-fir	19	6	Y	N	Satisfactory	

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Tree #	Species	Common Name	DBH"	Tree Units	Retention Y/N	Impacted by development	Health	Comments *see appendix for tree specific conditions of concerns
11054	<i>p.menziesii</i>	Douglas-fir	40	16	Y	N	Satisfactory	
11058	<i>p.menziesii</i>	Douglas-fir	19	6	Y	N	Satisfactory	
11090	<i>p.menziesii</i>	Douglas-fir	29	11	Y	N	Satisfactory	
11103	<i>p.menziesii</i>	Douglas-fir	15	4	Y	N	Satisfactory	
11116	<i>p.menziesii</i>	Douglas-fir	21	7	Y	N	Satisfactory	
11117	<i>p.menziesii</i>	Douglas-fir	7	2	Y	N	Satisfactory	
11118	<i>p.menziesii</i>	Douglas-fir	24	8	Y	N	Satisfactory	
11129	<i>fraxinus latifolia</i>	Ash	7	2	Y	N	Satisfactory	
11130	<i>p.menziesii</i>	Douglas-fir	25	9	Y	N	Satisfactory	
20023	<i>p.menziesii</i>	Douglas-fir	12	2	Y	N	Satisfactory	
20024	<i>p.menziesii</i>	Douglas-fir	10	2	Y	N	Satisfactory	
20041	<i>p.menziesii</i>	Douglas-fir	16	4	Y	N	Poor	Dead
20059	<i>fraxinus latifolia</i>	Ash	8	2	Y	N	Satisfactory	
20060	<i>fraxinus latifolia</i>	Ash	15	4	Y	N	Satisfactory	
20114	<i>p.menziesii</i>	Douglas-fir	19	6	Y	N	Satisfactory	
20115	<i>p.menziesii</i>	Douglas-fir	22	7	Y	N	Satisfactory	
20117	<i>p.menziesii</i>	Douglas-fir	22	7	Y	N	Satisfactory	
20118	<i>p.menziesii</i>	Douglas-fir	21	7	Y	N	Satisfactory	
20119	<i>p.menziesii</i>	Douglas-fir	19	6	Y	N	Satisfactory	
20120	<i>p.menziesii</i>	Douglas-fir	12	2	Y	N	Satisfactory	
10974	<i>q.garryana</i>	OR White Oak	24	8	Y	Y	Excelent	Sidewalk outer edge of drip line
10978	<i>q.garryana</i>	OR White Oak	38	15	Y	N	Satisfactory	Twin-stem
11060	<i>q.garryana</i>	OR White Oak	23	8	Y	N	Satisfactory	
11064	<i>q.garryana</i>	OR White Oak	29	11	Y	N	Satisfactory	
11094	<i>q.garryana</i>	OR White Oak	16	4	Y	N	Satisfactory	
11119	<i>q.garryana</i>	OR White Oak	18	5	Y	N	Satisfactory	
11120	<i>q.garryana</i>	OR White Oak	23	8	Y	N	Satisfactory	
11133	<i>q.garryana</i>	OR White Oak	43	18	Y	N	Satisfactory	
20025	<i>q.garryana</i>	OR White Oak	24	8	Y	N	Satisfactory	
20045	<i>q.garryana</i>	OR White Oak	24	8	Y	N	Satisfactory	
20052	<i>q.garryana</i>	OR White Oak	26	9	Y	N	Satisfactory	
20070	<i>q.garryana</i>	OR White Oak	11	2	Y	N	Satisfactory	

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20076	<i>q.garryana</i>	OR White Oak	11	2	Y	N	Satisfactory	
20082	<i>q.garryana</i>	OR White Oak	18	5	Y	N	Satisfactory	
20092	<i>q.garryana</i>	OR White Oak	10	2	Y	N	Satisfactory	
20093	<i>q.garryana</i>	OR White Oak	11	2	Y	N	Satisfactory	
20098	<i>q.garryana</i>	OR White Oak	14	3	Y	N	Satisfactory	
20113	<i>q.garryana</i>	OR White Oak	29	11	Y	N	Satisfactory	
11048	<i>pinus strobus</i>	White Pine	8	2	Y	N	Satisfactory	
20301	<i>p.menziesii</i>	Douglas-fir	14	3	N		NA	
20303	<i>p.menziesii</i>	Douglas-fir	18	5	N		NA	
20304	<i>p.menziesii</i>	Douglas-fir	17	5	N		NA	
20305	<i>p.menziesii</i>	Douglas-fir	15	4	N		NA	
20277	<i>fraxinus latifolia</i>	Ash	7	2	N		NA	
20278	<i>p.menziesii</i>	Douglas-fir	39	16	N		NA	
20279	<i>p.menziesii</i>	Douglas-fir	33	13	N		NA	
20280	<i>p.menziesii</i>	Douglas-fir	37	15	N		NA	
20281	<i>q.garryana</i>	OR White Oak	36	14	Y	Y	Excelent	Beyond grading area
20283	<i>p.menziesii</i>	Douglas-fir	27	10	Y	N	Satisfactory	
20284	<i>p.menziesii</i>	Douglas-fir	22	7	Y	N	Satisfactory	
20290	<i>q.garryana</i>	OR White Oak	25	9	Y	N	Satisfactory	
20296	<i>p.menziesii</i>	Douglas-fir	27	10	Y	N	Satisfactory	
20297	<i>p.menziesii</i>	Douglas-fir	24	8	Y	N	Satisfactory	
20298	<i>p.menziesii</i>	Douglas-fir	18	5	Y	Y	Satisfactory	Minimal root zone intrusion
20299	<i>p.menziesii</i>	Douglas-fir	26	9	Y	Y	Poor	Dead, Minimal root zone intrusion
20300	<i>p.menziesii</i>	Douglas-fir	18	5	N		NA	
20306	<i>p.menziesii</i>	Douglas-fir	15	4	N		NA	
20307	<i>p.menziesii</i>	Douglas-fir	32	12	N		NA	
20308	<i>p.menziesii</i>	Douglas-fir	26	9	N		NA	
20309	<i>p.menziesii</i>	Douglas-fir	22	7	N		NA	
20310	<i>p.menziesii</i>	Douglas-fir	23	8	N		NA	
20311	<i>p.menziesii</i>	Douglas-fir	17	5	N		NA	
20312	<i>p.menziesii</i>	Douglas-fir	22	7	N		NA	
20313	<i>p.menziesii</i>	Douglas-fir	23	8	Y	Y	Satisfactory	Beneficial impact

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Tree #	Species	Common Name	DBH"	Tree Units	Retention Y/N	Impacted by development	Health	Comments *see appendix for tree specific conditions of concerns
20314	<i>q.garryana</i>	OR White Oak	56	25	Y	Y	Satisfactory	Multi-Stem, Beneficial
20319	<i>p.menziesii</i>	Douglas-fir	12	2	Y	Y	Satisfactory	Beneficial impact
20320	<i>p.menziesii</i>	Douglas-fir	8	2	Y	Y	Satisfactory	Beneficial impact
20321	<i>p.menziesii</i>	Douglas-fir	18	5	Y	Y	Satisfactory	Beneficial impact
20322	<i>p.menziesii</i>	Douglas-fir	19	6	Y	Y	Satisfactory	Beneficial impact
20323	<i>p.menziesii</i>	Douglas-fir	8	2	Y	Y	Satisfactory	Beneficial impact
20324	<i>p.menziesii</i>	Douglas-fir	9	2	Y	Y	Satisfactory	Beneficial impact
20325	<i>p.menziesii</i>	Douglas-fir	28	10	Y	Y	Satisfactory	Beneficial impact
20326	<i>p.menziesii</i>	Douglas-fir	27	10	Y	Y	Excelent	Minimal root zone intrusion
20327	<i>q.garryana</i>	OR White Oak	38	15	Y	N	Satisfactory	Twin-stem
20328	<i>q.garryana</i>	OR White Oak	15	4	Y	N	Satisfactory	Twin-stem
20285	<i>q.garryana</i>	OR White Oak	13	3	Y	N	Satisfactory	
20302	<i>p.menziesii</i>	Douglas-fir	17	5	N		NA	
20338	<i>q.garryana</i>	OR White Oak	19	6	Y	N	Satisfactory	
20343	<i>q.garryana</i>	OR White Oak	22	7	Y	Y	Satisfactory	Highly phototropic to S.
20344	<i>p.menziesii</i>	Douglas-fir	29	11	Y	N	Satisfactory	
20353	<i>q.garryana</i>	OR White Oak	21	7	Y	N	Satisfactory	
20354	<i>q.garryana</i>	OR White Oak	25	9	Y	N	Satisfactory	
20355	<i>q.garryana</i>	OR White Oak	22	7	Y	N	Satisfactory	
20356	<i>q.garryana</i>	OR White Oak	23	8	Y	N	Satisfactory	
20362	<i>p.menziesii</i>	Douglas-fir	20	6	N		NA	
20363	<i>p.menziesii</i>	Douglas-fir	37	15	N		NA	
20364	<i>p.menziesii</i>	Douglas-fir	19	6	N		NA	
20498	<i>thuja placata</i>	Western Red Cedar	12	2	N		NA	
20499	<i>thuja placata</i>	Western Red Cedar	16	4	N		NA	Twin-stem
20500	<i>thuja placata</i>	Western Red Cedar	9	2	N		NA	
20501	<i>thuja placata</i>	Western Red Cedar	10	2	N		NA	
20502	<i>thuja placata</i>	Western Red Cedar	10	2	N		NA	
20503	<i>thuja placata</i>	Western Red Cedar	10	2	N		NA	
20504	<i>thuja placata</i>	Western Red Cedar	10	2	N		NA	
20505	<i>thuja placata</i>	Western Red Cedar	10	2	N		NA	
20506	<i>thuja placata</i>	Western Red Cedar	12	2	N		NA	

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Tree #	Species	Common Name	DBH"	Tree Units	Retention Y/N	Impacted by development	Health	Comments *see appendix for tree specific conditions of concerns
20507	<i>Thuja placata</i>	Western Red Cedar	11	2	N		NA	
20508	<i>Thuja placata</i>	Western Red Cedar	12	2	N		NA	
20509	<i>Thuja placata</i>	Western Red Cedar	12	2	N		NA	
20510	<i>Thuja placata</i>	Western Red Cedar	12	2	N		NA	
20511	<i>Thuja placata</i>	Western Red Cedar	11	2	N		NA	
20512	<i>Thuja placata</i>	Western Red Cedar	15	4	N		NA	
20513	<i>Thuja placata</i>	Western Red Cedar	13	3	N		NA	
20514	<i>Thuja placata</i>	Western Red Cedar	14	3	N		NA	
20515	<i>Thuja placata</i>	Western Red Cedar	18	5	N		NA	Twin-stem
20516	<i>Thuja placata</i>	Western Red Cedar	15	4	N		NA	
20517	<i>Thuja placata</i>	Western Red Cedar	16	4	N		NA	
10957	<i>p.menziesii</i>	Douglas-fir	25	9	Y	N	Satisfactory	
10913	<i>p.menziesii</i>	Douglas-fir	25	9	N		NA	
10915	<i>p.menziesii</i>	Douglas-fir	20	6	N		NA	
10917	<i>p.menziesii</i>	Douglas-fir	22	7	N		NA	
10921	<i>p.menziesii</i>	Douglas-fir	27	10	N		NA	
10922	<i>p.menziesii</i>	Douglas-fir	13	3	N		NA	
10925	<i>p.menziesii</i>	Douglas-fir	27	10	N		NA	
10929	<i>p.menziesii</i>	Douglas-fir	35	14	N		NA	
10930	<i>p.menziesii</i>	Douglas-fir	11	2	N		NA	
10931	<i>p.menziesii</i>	Douglas-fir	24	8	N		NA	
10934	<i>p.menziesii</i>	Douglas-fir	20	6	N		NA	
10935	<i>p.menziesii</i>	Douglas-fir	28	10	Y	N	Satisfactory	

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