

Attachment D -- Technical Reports

TUALATIN · VANCOUVER · SALEM-KEIZER



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April 18, 2017

Steven Nicholas
Heery International
Two Centerpointe Drive, Suite 250
Lake Oswego, OR 97035

RE: Milwaukie High School – Arborist Tree Evaluation

Mr. Nicholas:

As requested, attached is the Detailed Tree Inventory information for the trees shown on the Topographic Survey. Please let me know if you have any questions.

Sincerely,

AKS ENGINEERING & FORESTRY, LLC

A handwritten signature in black ink, appearing to read 'Bruce R. Baldwin'. The signature is fluid and cursive.

Bruce R. Baldwin
ISA Certified Arborist #PN-6666A
ISA Qualified Tree Risk Assessor
Member, International Society of Arboriculture



Detailed Tree Inventory for Milwaukie High School

AKS Job No. 5859 - Tree Evaluation: April 6 & 11, 2017

Tree #	DBH (in.)	Tree Species Common Name (Scientific name)	Comments	Health Rating*	Structure Rating**
10422	17	Cherry (<i>Prunus sp.</i>)	Pruning scars with good woundwood closure; Large exposed roots; Many scaffold branches weakly attached at one point	1	2
10423	15	Maple (<i>Acer sp.</i>)	Many large exposed roots; Multiple scaffold branches weakly attached at one point	1	2
10973	24,12	Maple (<i>Acer sp.</i>)	OFFSITE	1	1
10986	49	Cedar (<i>Cedrus sp.</i>)		1	1
10987	24	European White Birch (<i>Betula pendula</i>)	Broken branches; Some bulges on bole	1	2
10988	55	Cedar (<i>Cedrus sp.</i>)	Codominant 20' from ground with included bark	1	2
10989	17	Western Redcedar (<i>Thuja plicata</i>)	Codominant 10' from ground with included bark	1	2
11081	8	Maple (<i>Acer sp.</i>)		1	1
11082	13	Maple (<i>Acer sp.</i>)	Small bulge on bole at base	1	1
11124	13	Maple (<i>Acer sp.</i>)	Roots are girdling	1	2
11130	25	European White Birch (<i>Betula pendula</i>)	Lean (S); Cavities with decay; Bulges on bole; Dead branches; Crooked	2	3
11131	32	European White Birch (<i>Betula pendula</i>)	Broken branches; Pruning scars with decay; Epicormic sprouts; Bulges on bole; Scars; Cavities with decay; Crooked	2	3
11132	38	Bigleaf Maple (<i>Acer macrophyllum</i>)	Large exposed roots; Large bulge on bole	1	2
11133	7,8,11, 11,12,13	Western Redcedar (<i>Thuja plicata</i>)	11" Stems - Crooked and sweep away from main stem; 11" Stem - bark peeling; Poor structure	2	2
11150	7	Cherry (<i>Prunus sp.</i>)	Roots exposed and damage to top; Crooked	1	1
11151	7	Cherry (<i>Prunus sp.</i>)	Roots exposed and damage to top; Crooked	1	1
11175	7	Cherry (<i>Prunus sp.</i>)	Large roots appear to be girdling; Many roots above surface; Pruned	1	2
11176	6	Cherry (<i>Prunus sp.</i>)	Bark peeling	2	1
11219	62	Cedar (<i>Cedrus sp.</i>)		1	1
11291	10	Maple (<i>Acer sp.</i>)		1	1
11407	6	Maple (<i>Acer sp.</i>)		1	1
11409	6	Maple (<i>Acer sp.</i>)		1	1
11460	6	Maple (<i>Acer sp.</i>)		1	1
11461	9	Maple (<i>Acer sp.</i>)		1	1



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11480	7	Maple (<i>Acer sp.</i>)		1	1
11482	6	Maple (<i>Acer sp.</i>)		1	1
11882	20	Western Redcedar (<i>Thuja plicata</i>)	Codominant 10' from the ground with included bark	1	2
11885	8	Cherry (<i>Prunus sp.</i>)		1	1
11935	13	Western Redcedar (<i>Thuja plicata</i>)		1	1
11947	9	Cherry (<i>Prunus sp.</i>)		1	1
11960	7	Cherry (<i>Prunus sp.</i>)		1	1
11973	8	Cherry (<i>Prunus sp.</i>)		1	1
12148	25	Bigleaf Maple (<i>Acer macrophyllum</i>)	OFFSITE ; Evaluation from the property line; Appears dead	3	3
12149	9	Japanese Maple (<i>Acer palmatum</i>)		1	1
12150	9	Japanese Maple (<i>Acer palmatum</i>)		1	1
12151	6	Japanese Maple (<i>Acer palmatum</i>)		1	1
12172	8	Japanese Maple (<i>Acer palmatum</i>)		1	1
12212	16	"Cleveland Select" Pear (<i>Pyrus calleryana</i>)		1	1
12226	10	"Cleveland Select" Pear (<i>Pyrus calleryana</i>)		1	1
12227	11	"Cleveland Select" Pear (<i>Pyrus calleryana</i>)		1	1
12356	61	Cedar (<i>Cedrus sp.</i>)		1	1
12799	12	"Cleveland Select" Pear (<i>Pyrus calleryana</i>)		1	1
12867	9	Engelmann Spruce (<i>Picea engelmannii</i>)		1	1
12908	15	"Cleveland Select" Pear (<i>Pyrus calleryana</i>)		1	1



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Tree #	DBH (in.)	Tree Species Common Name (Scientific name)	Comments	Health Rating*	Structure Rating**
12909	8	"Cleveland Select" Pear (<i>Pyrus calleryana</i>)		1	1
12911	12	"Cleveland Select" Pear (<i>Pyrus calleryana</i>)		1	1
13413	6	Cherry (<i>Prunus sp.</i>)		1	1
14080	9	European White Birch (<i>Betula pendula</i>)	OFFSITE ; Some bore holes	1	1
14081	10,13	Douglas-fir (<i>Pseudotsuga menziesii</i>)	Codominant with included bark	1	2
14082	7	Douglas-fir (<i>Pseudotsuga menziesii</i>)		1	1
14083	9,11	Douglas-fir (<i>Pseudotsuga menziesii</i>)	Codominant with included bark; Large roots lifting asphalt to east	1	2
14084	14	Douglas-fir (<i>Pseudotsuga menziesii</i>)		1	1
14085	14	Douglas-fir (<i>Pseudotsuga menziesii</i>)	Some broken branches; Sap flow	1	1
14086	17	Douglas-fir (<i>Pseudotsuga menziesii</i>)	Bulges on bole	2	2
14087	12	Douglas-fir (<i>Pseudotsuga menziesii</i>)	Codominant 10' from the ground with included bark	1	2
14088	15	Douglas-fir (<i>Pseudotsuga menziesii</i>)	Sap flow	1	1
14089	9	Oregon Oak (<i>Quercus garryana</i>)	Sparse foliage; Some dead branches; Multiple branches weakly attached at one point	2	2
20187	6	Cherry (<i>Prunus sp.</i>)	Pruning scars; Decay at pruning scars; Bark peeling at base of tree; Cracked bark	2	2
20188	6,6,9,10	Cherry (<i>Prunus sp.</i>)	Large bulges at base; Pruned; Multiple weak attachments at one point	1	1
20192	27	California Black Oak (<i>Quercus kelloggii</i>)	Some broken branches	1	1
20701	10	"Cleveland Select" Pear (<i>Pyrus calleryana</i>)		1	1
30000	8	Maple (<i>Acer sp.</i>)		1	1
200001	84	Giant Sequoia (<i>Sequoiadendron giganteum</i>)	OFFSITE	1	1



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Tree #	DBH (in.)	Tree Species Common Name (Scientific name)	Comments	Health Rating*	Structure Rating**
200002	15	Cherry (<i>Prunus sp.</i>)	OFFSITE	1	1
200003	6,6	Cherry (<i>Prunus sp.</i>)	OFFSITE; Lean (S); Short stature	1	2
200004	8	Cedar (<i>Cedrus sp.</i>)	OFFSITE	1	1
200005	12	Maple (<i>Acer sp.</i>)	OFFSITE	1	1
200006	8	Cherry (<i>Prunus sp.</i>)	OFFSITE; Sparse foliage; Broken branches	2	1

Total # of Existing Trees Inventoried = 68

***Health Rating:**

1 = Good Health - A tree that exhibits typical foliage, bark, and root characteristics, for its respective species, shows no signs of infection or infestation, and has a high level of vigor and vitality.

2 = Fair Health - A tree that exhibits some abnormal health characteristics and/or shows some signs of infection or infestation, but may be reversed or abated with supplemental treatment.

3 = Poor Health - A tree that is in significant decline, to the extent that supplemental treatment would not likely result in reversing or abating its decline.

****Structure Rating:**

1 = Good Structure - A tree that exhibits typical physical form characteristics, for its respective species, shows no signs of structural defects of the canopy, trunk, and/or root system.

2 = Fair Structure - A tree that exhibits some abnormal physical form characteristics and/or some signs of structural defects, which reduce the structural integrity of the tree, but are not indicative of imminent physical failure, and may be corrected using arboricultural abatement methods.

3 = Poor Structure - A tree that exhibits extensively abnormal physical form characteristics and/or significant structural defects that substantially reduces the structural viability of the tree, cannot feasibly be abated, and are indicative of imminent physical failure.

Arborist Disclosure Statement:

Arborists are tree specialists who use their education, knowledge, training, and experience to examine trees, recommend measures to enhance the health of trees, and attempt to reduce the risk of living near trees. The Client and Jurisdiction may choose to accept or disregard the recommendations of the arborist, or seek additional advice. Arborists cannot detect every condition that could possibly lead to the structural failure of a tree. Trees are living organisms that fail in ways we do not fully understand. Conditions are often hidden within trees and below ground. Arborists cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time. Likewise, remedial treatments, like medicine, cannot be guaranteed. Trees can be managed, but they cannot be controlled. To live near trees is to accept some degree of risk. The only way to eliminate all risk associated with trees is to eliminate all trees. Neither this author nor AKS Engineering & Forestry, LLC have assumed any responsibility for liability associated with the trees on or adjacent to this site.

At the completion of construction, all trees should once again be reviewed. Land clearing and removal of adjacent trees can expose previously unseen defects and otherwise healthy trees can be damaged during construction.