

Tree Care Unlimited,.LLC 5600 Rosewood St. Lake Oswego, OR 97035

January 3, 2012

Joel Komarek, P.E. Director, Lake Oswego—Tigard Water Supply Partnership P.O. Box 369 Lake Oswego, OR 97034

Dear Mr. Komarek,

Attached please find the Tree Assessment for the Water Treatment Properties at 4260 Kenthorpe Way, 4245, 4305 & 4315 SW Mapleton Dr., West Linn, Oregon. I performed the field work between August 24 and August 30. The work included assessing 480 trees of which 184 are regulated and subject to City of West Linn Tree Ordinance and Community Development Code.

Sincerely,

limps

Kay Kinyon International Society of Aboriculture Certified Arborist PN 0409A



Lake Oswego & Tigard Water Treatment Plant 4260 Kenthorpe Way, 4245, 4305 & 4315 Mapleton Dr. West Linn, Oregon

TREE ASSESSMENT Revised 1/9/12

Prepared For

Lake Oswego-Tigard Water Supply Partnership P.O. Box 369 Lake Oswego, Oregon 97034

Residential and Commercial Removal•Pruning•Arboricultural Services•Consultation MEMBER: Tree Care Industry Association•International Society of Arboriculture•Oregon Construction Contractors Assoc.State Licensed Tree Service #195179•Insured P.O. Box 1566•Lake Oswego, OR 97035•503-635-3165•Fax 503-635-1549 Visit our website at www.tclu.com•E-mail: info@tclu.com



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ARBORIST REPORT

Subject:

Address of the Report:

Date of the Report: Janua

Report Submitted To:

Tree Assessment

4260 Kenthorpe Way, 4245, 4305 & 4315 Mapleton Dr. West Linn, Oregon

January 3, 2012

Joel Komarek Director, Lake Oswego-Tigard Water Supply Partnership City of Lake Oswego P.O. Box 369 Lake Oswego, OR 97034 Phone: 503-697-6588 FAX: 503-534-5225 E-mail: jkomarek@ci.oswego.or.us

SUMMARY

I have completed an on site assessment of all trees 5 inches in diameter or greater on the properties at 4260 Kenthorpe Way, 4245, 4305 & 4315 Mapleton Drive. This assessment includes 480 trees of which 184 are regulated by The City of West Linn Ordinance 1542 and Development Code Chapter 55. The majority of the regulated trees, approximately 79% are native or naturalized species. The remaining 21% are more exotic species that appear to have been introduced. Five perimeter trees which are just off the tax lots included in this assessment have been included to document their existence and condition.

There appear to be no Heritage trees on site.

A grove of mostly Oregon Ash trees exists along the northern end of 4245 & 4305 Mapleton Dr. Most trees in the grove contain serious defects. At 4260 Kenthorpe Way, development has displaced most native trees in a grove situation on the rest of the site. Trees with diameters of less than 12 inches exist that are in a man made grove situation but are not protected trees. That said, one small grove of mostly native trees does exist on the extreme west side of 4260 Kenthorpe Way and one that is similar in nature exists in the northeast portion of the site.

ASSIGNMENT

Tree Care & Landscapes Unlimited, Inc. was asked to perform an assessment of all trees 5 inches or greater in diameter on site including estimated height and canopy spread. The assessment also includes form, crown class, age class, and tree health. The work is to include determining if any of the assessed trees qualify for designation as a City of West Linn Heritage Tree or significant tree clusters.

OBSERVATIONS

The assessment reviewed 480 trees. Of those, 184 are regulated.

Trees covered by City of West Linn regulation include 20 different species. Regulated trees are Oregon White Oak, Pacific Madrone and Pacific Dogwood with a 6 inch diameter DBH and all other trees with a DBH of 12 inches or greater. A break out of the species is shown below in "Table 1–4260 Kenthorpe Way, 4245, 4305 & 4315 Mapleton Dr. Tree Species".

Table 1–4260 Kenthorpe Way, 4245	5, 4305 & 4315 Maple Dr. Regulated Tree	es by
Species		

COMMON NAME	COUNT	PERCENT
American Elm	1	0.54%
American Sweetgum	2	1.09%
Bigleaf Maple	19	10.33%
Black Cottonwood	8	4.35%
Blue Atlas Cedar	1	0.54%
Deodar Cedar	5	2.72%
Douglas Fir	3	1.63%
European White Birch	5	2.72%
Giant Sequoia	5	2.72%
Grand Fir	4	2.17%
Hawthorn, English	3	1.63%
Hinoki Falsecypress	1	0.54%
Japanese Maple	1	0.54%
London Plantree	1	0.54%
Norway Maple	1	0.54%
Oregon Ash	53	28.80%
Oregon White Oak	11	5.98%
Pacific Yew	1	0.54%
Pine	11	5.98%
Red Alder	7	3.80%
Red Oak	1	0.54%
Spruce	9	4.89%
Western Red Cedar	29	15.76%
Willow	2	1.09%
	184	100.00%

The complete Tree Assessment is found in the attached "Appendix 1—4260 Kenthorpe Way, 4245, 4305 & 4315 Mapleton Dr. Tree Assessment". "Appendix 2—4260 Kenthorpe Way, 4245, 4305 & 4315 Maple Dr. Tree Map" shows the location of all inventoried trees.

All diameters as listed in **Appendix--1** under the column, "DBH", are in inches. All diameters are measured at 54 inches above mean ground level at the base of the plant or at the narrowest trunk area below stem break in the case of multiple stem trees. Exceptions are noted in the "Comments" column. Height and spread of trees is estimated. Trunk area method was used to determine multiple stem tree diameters.

The column headed "Crown Class" refers to the stature of trees described as being Dominant, Co-dominant, or Below Canopy. The terms are relative to the subject tree grove. Dominant trees are the larger trees that have established relatively free from competition. Co-dominant trees form the majority of the grove and have grown up together as a group. Below Canopy trees have growth that has been restricted by nearby trees. The restriction may be moderate to severe.

"Age Class" refers to the maturity of a tree. The terms Over-mature, Mature, Semi-mature and Young are used to describe this attribute. Over-mature trees are older and display significant decline such as large cavities. Mature trees are older trees that are usually near their full size and may have defects that are not significant. Semi-mature trees are maturing trees usually in good health and in the transition from young to mature. Young trees are usually much smaller than semi-mature trees and are still exhibiting juvenile vigor. The column headed "Tree Health" describes the condition of trees surveyed which are indicated as being Very Good, Good, Fair, Poor, Very Poor or Dead. Trees rated as Very Good are prime specimens with no visible defects. Trees rated as good may have minor defects but are stable trees in good health. Trees rated as Fair usually contain at least one visible defect that may become more significant some time in the future. Poor trees contain at least one significant visible defect. The defect may be structural or cosmetic. They are usually displaying reduced vigor and may be candidates for removal. Trees rated as Very Poor contain significant defect are hazardous or near hazardous. Dead trees are dead and should be removed before decay advances to the point that they become hazardous.

DISCUSSION

The majority of trees on site are native or naturalized trees. The most significant concentration of mature native trees is located along the northeast side of 4305 Mapleton Dr. and runs along its north end and continues across the north end of 4245 Mapleton Dr. Most of the trees in the grove are over-mature Oregon Ash. A large number of these trees are in very poor condition. All trees in very poor condition are found in this grove. Most of them contain large cavities in their lower bole and root crown areas. The size and number of cavities indicates the need to further evaluate these trees for hazard risk. Details regarding these trees are shown in Table 2 below. This table is restricted to regulated trees as defined by City of West Linn Tree Ordinance (Oregon White Oak 6" DBH or greater, Pacific Madrone 6" DBH or greater and all others 12" DBH or greater).

			HEALTH	
13429	Western Red Cedar	24	Very Poor	24" x 20' cavity from ground on S. side.
13886	Willow	19	Very Poor	4 stems 12,6,11,8. Severe cavities & decay all stems.
14199	Oregon Ash	17	Very Poor	Stem failure at 30' above ground.
14327	Oregon Ash	15	Very Poor	Broken top. 4" limb cavity at 6.5' above ground on E side.
14367	Oregon Ash	30	Very Poor	2 stems 24,18. 4" diameter cavity at 3' above ground on S side. 2" x 12" cavity at 30' above ground on S side. Bark inclisions with excessive end weight. History of large limb failure.
14392	Oregon Ash	28	Very Poor	Cavities in trunk from ground up.
14395	Oregon Ash	21	Very Poor	10" x 3.5' cavity from 4' to 7.5' above ground on N side.
14399	Oregon Ash	27	Very Poor	16" x60" cavity from ground on S side goes all the way through trunk.
14401	Oregon Ash	15	Very Poor	3 stems 12,7,6. Thin crown. Stressed.
14403	Oregon Ash	25	Very Poor	2 stems 22,17. Broken tops on both stems. History of large limb failure.
14404	Oregon Ash	15	Very Poor	18" x 12' cavity from ground on S side.
14404.1	Oregon Ash	18	Very Poor	24" x 5' cavity from ground on N side.

Table 2—VERY POOR REGULATED TREES TO BE FURTHER EVALUATEDNO.COMMON NAMEOBHTREECOMMENTS

NO.	COMMON NAME	DBH	TREE HEALTH	COMMENTS
14404.2	Oregon Ash	14	Very Poor	10" x 24" cavity from ground on E side.
14405	Oregon Ash	16	Poor	4 stems 8,7,11,4. 18 x 24" cavity from ground on E side.
14484	Oregon Ash	33	Very Poor	12" limb cavity at 4' above ground on N side.
14486	Oregon Ash	25	Very Poor	2 stems 22,12. 8"x24" cavity from ground on E side. Broken top. History of limb failure. Thin crown.
14488	Oregon Ash	14	Very Poor	12" x 8' cavity from ground on N side.
14489	Oregon Ash	18	Very Poor	Stem failure at 15' above ground.
14490	Oregon Ash	25	Very Poor	Stem failures at 25' above ground.
14491	Oregon Ash	29	Very Poor	4" x 24" cavity from ground on N side. 6" x 4' cavity at 40' above ground on S side.
14492	Oregon Ash	19	Very Poor	24" x 8' cavity from ground on E. side.
14493	Oregon Ash	28	Very Poor	3" x 16" cavity from ground on N side.
14493.1	Oregon Ash	16	Very Poor	3" x 4.5' cavity from ground on S side. High crown.
14494	Oregon Ash	19	Very Poor	2"x4" cavity at 2' above ground on N side.
14495	Oregon Ash	20	Very Poor	2" x 12" cavity from 1.5' above ground on E. side.
14496	Oregon Ash	29	Very Poor	2 stems 23,17. 17" stem is hollow from ground'.
14498	Oregon Ash	18	Very Poor	Cavities.
15481	Black Cottonwood	12	Very Poor	Broken top at 30' above ground.
15490	Western Red Cedar	24	Very Poor	Broken top at 30' above ground.
15491	Western Red Cedar	22	Very Poor	Broken top at 20' above ground.
15492	Western Red Cedar	12	Very Poor	Brokne top at 20" above ground.
15581	Western Red Cedar	20	Very Poor	Broken trunk is hollow.
15594	Bigleaf Maple	16	Very Poor	Broken top at 30' above ground.
15607	Bigleaf Maple	33	Very Poor	Failed stem with cavity at 15' above ground.
15610	Bigleaf Maple	29	Very Poor	Dead leader on S. side.
15625	Red Alder	14	Very Poor	Broken top.
15626	Red Alder	18	Very Poor	Broken top.
15629.1	Bigleaf Maple	21	Very Poor	Broken top.
105019	Oregon Ash	32	Very Poor	Decay in lower bole.
105024	Oregon Ash	12	Very Poor	18" x 12' cavity from ground on W side.
105027	Oregon Ash	20	Very Poor	2 stems 12,16. 15"x24" cavity from ground W.

Eleven regulated Oregon White Oaks exist on the site but are not organized into a native oak grove. Instead, they are scattered across the entire site. Five of the Oaks(#14180, #14191, #14252, #14349 & #14480) are growing inside the property lines of the three tax lots that front on Mapleton Dr. A sixth Oregon White Oak(#14438) is growing in the Mapleton Dr. right of way. Six Oregon White Oaks exist on the 4260 Kenthorpe property. They include Trees #13728.3, #13886.1, #13992.4, #14245, #14403.1 & #15476.

The remaining trees appear to have been planted by past residents. They include fruit trees and introduced ornamental landscape varieties. There are also a number of native west coast species not necessarily native to the Willamette Valley that have been planted as landscape trees. Many trees at 4315 Mapleton Dr. are examples of these plantings. Most trees at 4260 Kenthorpe Way are less than 12" DBH and appear to have been planted as a result of past development. These trees are predominantly Western Red Cedar, Douglas Fir and other ornamental landscape varieties.

Two Pacific Waxmyrtles and one 23 inch Oregon Ash are located in the Kenthorpe right of way. The Waxmyrtles are less than 12 inches in diameter and are not regulated. The Oregon

Ash is regulated and is in Very Poor condition and has been determined to be a hazard tree in a previous evaluation.

The inventory of all trees on site was reviewed to determine if there are any candidates that could be considered as possible Heritage Trees. Three possibilities meeting minimum diameter requirements emerged. However, none of them met the score requirement of 180 points. The trees and their scores are shown below in "Table 3 Heritage Tree Candidates".

No.	Species	Diameter	DBH Rating	Condition	Location	Historical Factor	Heritage Score
	Giant						
14478	Sequoia	59	5	5	6	1	150
	Giant						
14479	Sequoia	49	5	5	6	1	150
14482	Oregon Ash	39	5	2	6	1	60

Table 3—Heritage Tree Candidates

SPECIFICATIONS FOR TREE PROTECTION DURING CONSTRUCTION

TREE PROTECTION ZONE (TPZ)

Each tree to be retained shall have a designated tree protection zone (TPZ) identifying the area sufficiently large enough to protect the tree and roots from disturbance. The standard for computing the size of the TPZ shall be a 1/2 foot radius per caliper inch measured from the trunk of the tree. For example, a 30 inch DBH tree would have a TPZ with a radius of 15 feet from the trunk, or a 30 foot diameter full circle around it. The tree protection zone shall be shown on all site plans for the project. Improvements or activities such as paving, utility and irrigation trenching and other ancillary activities shall occur outside the tree protection zone, unless authorized by the City Arborist, or by project approval. Unless otherwise specified, the protective fencing shall serve as the tree protection zone. Activities prohibited within the tree protection zone include:

- Storage or parking vehicles, building materials, refuse, excavated spoils or dumping of poisonous materials on or around trees and roots. Poisonous materials include, but are not limited to, paint, petroleum products, concrete or stucco mix, dirty water or any other material which may be deleterious to tree health.
- The use of tree trunks as a winch support, anchorage, as a temporary power pole, sign posts or other similar function.
- Cutting of tree roots by utility *trenching*, foundation digging, placement of curbs and trenches and other miscellaneous excavation without prior approval of the City Arborist.
- Soil disturbance or grade change.
- Drainage changes.

Activities permitted or required within the tree protection zone include:

• Mulching. During construction, wood chips may be spread within the TPZ to a 4-to 6inch depth, leaving the trunk clear of mulch to help inadvertent *compaction* and moisture loss from occurring. The mulch may be removed if improvements or other landscaping is required. Mulch material shall be 2-inch unpainted, untreated wood chip mulch or approved equal.

- Root Buffer. When areas under the tree canopy cannot be fenced, a temporary buffer is required and shall cover the root zone and remain in place at the specified thickness until final grading stage.
- Irrigation, aeration, fertilizing or other beneficial practices that have been specifically approved for use within the tree protection zone.
- Erosion Control. If a tree is adjacent to or in the immediate proximity to a grade slope of 8% or more, then approved erosion control or silt barriers shall be installed outside the TPZ to prevent siltation and/or erosion within the tree protection zone.

TREE PROTECTION FENCING

Fenced enclosures shall be erected around trees to be protected to achieve three primary goals, (1) to keep the foliage crowns and branching structure clear from contact by equipment, materials and activities; (2) to preserve roots and soil conditions in an intact and non-compacted state and; (3) to identify the tree protection zone in which no soil disturbance is permitted and activities are restricted, unless otherwise approved.

- Size and type of fence: All trees to be preserved shall be protected with six foot high chain link fences six foot high "no climb" wire fencing. Fences are to be mounted on two inch diameter galvanized iron posts or 8' studded tee steel fence posts, driven into the ground to a depth of at least 2-feet at no more than 10-foot spacing. This detail shall appear in the construction plan set, and can be referenced in the City's Construction Standards.
- Area to be fenced: The fences shall enclose the entire area within the tree protection zone of the tree(s) to be saved throughout the life of the project as mapped by the building permit approval, or as mapped within the tree protection and preservation plan contained in the Arborist Report for the project. The fencing shall remain until final improvement work within the area is required, typically near the end of the project. If the fencing must be located on paving or sidewalk that will not be demolished, the posts may be supported by an appropriate grade level concrete base. For trees situated within a narrow planting strip, only the planting strip shall be enclosed with the required chain link protective fencing in order to keep the sidewalk and street open for public use. Trees situated in a small tree well or sidewalk planter pit, shall be wrapped with 2-inches of orange plastic fencing as padding from the outside. During installation of the wood slats, caution shall be used to avoid damaging any bark or branches. Major scaffold limbs may also require plastic fencing as directed by the project arborist or City Arborist.
- **Duration**: Tree fencing shall be erected before demolition, grubbing, grading or construction begins and remain in place until final inspection of the project permit, except for work specifically required in the approved plans in which case the project arborist or City Arborist (in the case of street trees) must be consulted.
- **Warning Sign**: A warning sign shall be prominently displayed on each fence. The sign shall be a minimum of 8.5×11 -inches and clearly state:

• WARNING:

Tree Protection Zone.

• **Violations**: The penalty for the unauthorized removal or relocation of a tree protection fence, and/or unauthorized activity within a TPZ, is \$500, plus \$500 per day until the fence is repaired or replaced and any damage to the tree properly mitigated.

TREE PROTECTION ALERNATIVE

In situations where construction impact intrudes into a TPZ but is compatible with the long term viability of the tree(s) as determined by the project arborist the project arborist may prescribe alternative tree protection to fencing. Such protection measures may include minimum 12 inch thick wood chip layer over a soil cloth base. Steel plates placed over the ground to protect TPZ from soil compaction may also be an example of a project arborist prescribed alternative protection measure.

CONSTRUCTION MEETING AND INSPECTION SCHEDULE

A certified arborist may be required to be retained by the applicant during the construction of large development projects. This project arborist retained shall conduct the following required inspections for the duration of construction activity. Correspondence may be as simple as e-mail in some cases or may require larger documents with tables, photographs, etc. for others.

- **Inspection of Protective Tree Fencing**: The City Arborist shall be in receipt of a written statement from the applicant or project arborist verifying that the protective tree fencing has been installed and may be inspected by the City Arborist prior to issuance of a demolition, grading, or building permit, unless otherwise approved.
- **Pre-Construction Meeting:** Prior to commencement of construction, the applicant or contractor may be required to conduct a pre-construction meeting to discuss tree protection with the job site superintendent, grading equipment operators, certified arborist, and City Arborist.
- Monthly Inspections: If a project arborist is required for the development project, he/she shall perform monthly inspections to monitor changing conditions and tree health. The City Arborist shall be in receipt of an inspection summary during the first week of each calendar month or, immediately if there are any changes to the approved plans or protection measures.
- **Special Activity Within the Tree Protection Zone**: Work in this area (TPZ) requires the direct onsite supervision of the project arborist or City Arborist.
- **Project Summary and Conclusion**: A brief summary discussing the project's trees shall be submitted to the City Arborist at the conclusion of all construction activity. It shall include concerns about trees that may have been negatively impacted as well as recommendations for care of the trees in the future.

TREE PRUNING, SURGERY AND REMOVAL

Prior to construction, various trees may require that branches be pruned clear from structures, activities, building encroachment or may need to be strengthened by means of mechanical support or surgery. The most compelling reason to prune is to develop a strong, safe framework and tree structure. Such pruning, surgery or the *removal* of trees shall adhere to the following standards:

- **Minimum Pruning**: If the project arborist recommends that trees be pruned, and the type of pruning is left unspecified, the standard pruning shall consist of *'crown cleaning'* as defined by ISA pruning guidelines. Trees shall be pruned to reduce hazards and develop a strong, safe framework.
- **Maximum Pruning:** Maximum pruning should only occur in special situations approved by the City Arborist. No more than one-third (33 percent) of the functioning leaf and stem area may be removed within one calendar year of any tree, or removal of foliage so as to cause the unbalancing of the tree. It must be recognized that trees are individual in form and structure, and that pruning needs may not always fit strict rules. The project arborist shall assume all responsibility for special pruning practices

that vary from the standards outlined in this manual.

- **Tree Workers:** Pruning shall not be attempted by construction or contractor personnel, but shall be performed by a qualified tree care specialist or certified tree worker, according to specifications contained within the City of West Linn Tree Technical Manual.
- **Surgery**: Prior to construction, if it is necessary to promote health and prolong useful life or the structural characteristics, then trees shall be provided the appropriate treatments as specified by the project arborist or City Arborist.
- **Tree Removal**: Removal of trees that extend into the branches or roots of protected trees shall not be attempted by demolition or construction personnel, grading or other heavy equipment. A certified arborist or tree worker shall remove the tree carefully in a manner that causes no damage above or below ground to trees that remain.
- **Stump Removal**: Before performing stump extraction, the developer shall first consider whether or not roots may be entangled with trees that are to remain. If so, these stumps shall have their roots severed before extracting the stump. *Removal* shall include the grinding of stump and roots to a minimum depth of 24-inches but expose soil beneath stump to provide drainage. In sidewalk or small planter areas to be replanted with a new tree, the entire stump shall be removed and the planting pit dug to a depth of 30-inches. If dug below 30-inches, compact the backfill to prevent settling. Large surface roots three feet from the outside circumference shall be removed, including the spoils and backfilled with City approved topsoil to grade, and the area tamped to settle the soil.

CONSTRUCTION ACTIVITY

Construction is normally prohibited in the TPZ. Under certain circumstances it may be necessary to work in the TPZ, however only with approval from the City Arborist. If any construction activity is to occur in the TPZ the following guidelines apply:

Excavation and Grading

The following guidelines shall be followed in regard to excavation and grading activities:

- 1. Contractor shall notify the Project Arborist and City Arborist a minimum of 24 hours in advance of the activity in the tree protection zone.
- 2 Roots that are encountered shall be cut to sound wood and repaired. Roots 2-inches and greater must remain injury free and uncut.
- 3. Any approved excavation, demolition or extraction of material shall be performed with equipment sitting outside the tree protection zone. Methods permitted are by hand digging, hydraulic or pneumatic air excavation technology. Avoid excavation within the TPZ during hot, dry weather. If excavation or trenching for drainage, utilities, irrigation lines, etc.,
- 4. Grade changes within the tree protection zone are not permitted unless approved by the City Arborist.
- 5. Grade changes outside of the tree protection zone shall not significantly alter drainage within the TPZ.
- 6. Grade changes under specifically approved circumstances shall not allow more than 6inches of fill soil added or allow more than 4-inches of existing soil to be removed from natural grade.
- 7. Grade fills over 6-inches or impervious overlay shall incorporate an approved permanent aeration system, permeable material or other approved mitigation.
- 8. Grade cuts exceeding 4-inches shall incorporate retaining walls or an appropriate transition equivalent.

- 9. If excavation or trenching for drainage, utilities, irrigation lines, etc., it is the duty of the contractor to tunnel under any roots 2-inches in diameter and greater. Prior to excavation for foundation/footings/walls, grading or trenching within the TPZ, roots shall first be severed cleanly 1-foot outside the tree protection zone and to the depth of the future excavation. The trench must then be hand dug and roots pruned with approved root pruning equipment.
- If injurious activity or interference with roots greater than 2-inches will occur within the tree protection zone, plans shall specify a design of special foundation, footing, walls, concrete slab or pavement designs subject to *City Arborist* approval. Discontinuous foundations such as concrete pier and structural grade beam must maintain natural grade (not to exceed a 4-inch cut), to minimize root loss and allow the tree to use the existing soil.
- 11. Basement excavations shall be designed outside the tree protection zone of all protected trees unless approved by the City Arborist, and shall not be harmful to other neighboring property trees.
- 12. Use of backhoes, steel tread tractors or any heavy vehicles within the TPZ is prohibited unless approved by the Project Arborist. If allowed, a protective root buffer is required. The protective buffer shall consist of a base course of tree chips spread over the root area to a minimum of 6-inch depth, layered by 3/4-inch quarry gravel to stabilize 3/4-inch plywood on top. This buffer within the tree protection zone shall be maintained throughout the entire construction process.

Trenching, Tunneling and Directional Drilling for Utilities

- 1. If trenching or pipe installation has been approved within the tree protection zone, then the trench shall be either cut by hand, air-spade, hydraulic vacuum excavation or, by mechanically boring the tunnel under the roots with a horizontal directional drill and hydraulic or pneumatic air excavation technology.
- 2. Utility pipe must be installed immediately, backfilled with soil and soaked within the same day.
- 3. Street Trees that are in conflict with utility infrastructure where the conflict cannot be resolved may be removed if approved by the City Arborist. All Street Tree removals are subject to replacement.
- 4. Emergency utility repairs shall be exempt from the above restriction zones within the Tree Protection Zone. The City Arborist shall be contacted after any such repairs that may result in significant tree damage or removal.

Pavement and Hardscape

Conflicts may occur when tree roots grow adjacent to paving, foundations, sidewalks or curbs (hardscape). Improper or careless extraction of these elements can cause severe injury to the roots and instability or even death of the trees. The following alternatives must first be considered before root pruning within the tree protection zone of a tree:

- 1. Grinding a raised sidewalk edge.
- 2. Ramping the walking surface over the roots.
- 3. Routing the sidewalk around the tree roots.
- 4. Install flexible paving or rubberized sections.
- 5. On private property, new sidewalk or driveway design should consider alternatives to conventional pavement and sidewalk materials. Substitute permeable materials for typical asphalt or concrete overlay, sub-base or footings to consider are: permeable

paving materials (such as ECO-Stone or RIMA pavers), interlocking pavers, flexible paving, wooden walkways, porches elevated on posts and brick or flagstone walkways on sand foundations.

Removal of existing pavement over tree roots shall include the following precautions:

- 1. Break hardscape into manageable pieces with a jackhammer or pick and hand load the pieces onto a loader. The loader must remain on undisturbed pavement or off exposed roots.
- 2. Do not remove base rock that has been exploited by established absorbing roots.

Replacement of pavement or sidewalk:

- 1. An alternative to the severance of roots greater than 2- inches in diameter should be considered before cutting roots.
- 2. If an alternative is not feasible, remove the sidewalk, remove roots only as approved by the City Arborist and replace sidewalk using #3 dowels at the expansion joint if within 10-feet of a street tree. Use a wire mesh reinforcement within if within 10-feet of the trunk of a protected or street tree. Any work in the right-of-way requires a street work permit from Public Works Department.

Conflicts and associated costs can be avoided or reduced by the following planting practices:

- 1. Plant deep rooted trees that are proven to be non-invasive.
- 2. Over soil that shrinks and swells, install a sidewalk with higher strength that has wire mesh and/or expansion slip joint dowel reinforcement.
- 3. Follow soil loosening planting techniques to promote deep rooting.
- 4. Install root barrier only along the hardscape area of the tree and allow roots to use open lawn or planter strip areas.
- 5. Dedicate at least 10-linear feet of planting space for the growth of each tree.
- 6. When designing hardscape areas near trees, the project architect or engineer should consider the use of recommended base course material such as an engineered structural soil mix.

Invasive species removal

Often, contractors will be required to remove invasive plant species from the understory in TPZ's. In most cases, native understory plants shall be saved and the area will be fully cleared of invasive species. The following practices must be followed when removing invasives:

- 1. The preferred method for invasive plant removal, is by hand, extracting the entire plant, including the roots. Other manual methods include cutting the plants to ground level, either mechanically, or with hand tools, and spraying the new growth with an approved herbicide. In either case, native understory plants may not be harmed or removed.
- If heavy machinery is used, for example, a brush rake attached to an excavator, the machine must stay outside of the TPZ and "reach" into the area, carefully extracting the invasives without damaging the protected trees or native understory whatsoever.
- 3. In some cases, a restoration of native understory may be required. An approved list of native plants is included as *appendix B*

CONSTRUCTION DAMAGE TO PROTECTED TREES

Any damage or injury to trees shall be reported within 6-hours to the Project Arborist and Site Superintendent or City Arborist so that mitigation can take place. All mechanical or chemical injury to branches, trunk or to roots over 2-inches in diameter shall be reported in the monthly inspection report. In the event of injury, the following mitigation and damage control measures shall apply:

- **Root injury**: If trenches are cut and tree roots 2-inches or larger are encountered they must be cleanly cut back to a sound wood lateral root. All exposed root areas within the TPZ shall be backfilled or covered within one hour. Exposed roots may be kept from drying out by temporarily covering the roots and draping layered burlap or carpeting over the upper 3-feet of trench walls. The materials must be kept wet until backfilled to reduce evaporation from the trench walls.
- **Bark or trunk wounding**: Current bark treatment methods shall be performed by a qualified tree care specialist within two days.
- Scaffold branch or leaf canopy injury: Remove broken or torn branches back to an appropriate branch capable of resuming terminal growth within five days. If leaves are heat scorched from equipment exhaust pipes, consult the Project Arborist within 6 hours.

Construction Injury Mitigation

A mitigation program may be required if it is found the approved development will cause drought stress, dust accumulation or soil compaction to trees that are to be saved. To help reduce impact injury, one or more of the following mitigation measures shall be implemented and supervised by the Project Arborist as follows:

- Irrigation Program: Irrigate to wet the soil within the tree protection zone to a depth of 24-inches to 30-inches. Or, apply sub-surface irrigation at regular specified intervals by injecting on approximate 3-foot centers, 10-gallons of water per inch trunk diameter within the tree protection zone. Duration shall be until project completion or monthly until seasonal rainfall totals at least 8-inches of rain, unless specified otherwise by the certified arborist.
- **Dust Control Program**: During periods of extended drought, wind or grading, spray wash trunk, limbs and foliage to remove accumulated construction dust.
- **Compaction Mitigation**: If inadvertent compaction of the soil has occurred within the tree protection zone, the soil shall be loosened by one or more of the following methods to promote favorable root conditions: vertical mulching, soil fracturing, core-venting, radial trenching or other method approved by the City Arborist.
- Aeration System: If an approved paving, hardscape or other compromising material encroaches within the tree protection zone, an aeration system may be required and shall be designed by the Project Arborist and used within this area.

Non-compliance, Penalty and Enforcement

Non-compliance with any City mandated mitigation shall result in enforcement of penalties set forth in section 8.740 of the West Linn Tree Ordinance.

NOTE: This tree protection plan identifies construction protection measures to prevent unwarranted tree loss. The identified measures limit the amount of earth disturbance surrounding the trees, and limit the removal of the tree's root systems. Due to the variation of every project, it is unlikely all of the above identified measures can be practicably applied to each individual tree; nor is it likely each measure is necessary to retain each tree. Prior to the beginning of construction a meeting between a certified arborist and the necessary contractors will be held to determine the appropriate level of protection for each tree, in relation to what work needs to be completed in the tree's vicinity. On site supervision by a certified arborist will be determined and supplied as necessary.

MITIGATION TREE MAINTENANCE RECOMMENDATIONS

TREE PLANTING SPECIFICATIONS

Planting specifications apply for trees that are planted as a replacement for a tree approved for removal. Using the following specifications will result in consistent city-wide plantings, and superior tree growth and vitality. To achieve this, landscape architects shall incorporate these items into their specifications.

PLANTING STOCK

It is the contractor's responsibility to supply stock that meets ANSI 760.1-1996 and City of West Linn *Tree Technical Manual Standards*. All plants and trees installed within the City of West Linn shall conform with American Association of Standards, ANSI Z60.1, *Specifications for Acceptance of Nursery Trees at the Time of Delivery*, in all ways.

- Plants shall be sound, healthy, vigorous, and free of plant disease and insect pests and their eggs.
- Container stock shall be grown for at least 8-months in containers in which delivered and shall not be root bound or have girdling roots.
- Trees shall not have been topped or headed.
- Plants and trees with broken tops, branches or injured trunks shall be rejected.

RECOMMENDED MITIGATION TREES

There are many trees available that are appropriate for use as mitigation trees, and new varieties are being developed every year. The City shall maintain a list of appropriate trees for planting in the City, either as street trees, or for use in yards, parks, etc. and is <u>appendix A</u> to the City of West Linn Tree Technical Manual. The list will be updated periodically as new varieties are available, or as information is received about diseases, insects and other nuisances. Please consider the location, size of planting area, and other site specific variables when choosing a tree.

MISCELANEOUS MATERIALS

The following materials shall be used unless otherwise specified:

• Tree stakes: Support stakes shall be treated 2-inch diameter pine or equal,

two stakes per tree. No cross brace shall be used. After installation, stakes shall be trimmed so that the branches clear the top of the stake.

- **Tree Ties:** Twist brace, fabric-reinforced rubber (3/8-inch minimum), or equivalent approved by the City of West Linn shall be used and installed in a figure eight fashion to support the tree to the stakes.
- **Mulch**: Screened untreated wood chips, bark dust or approved equal, spread to a 2-inch depth out to the edge of the root ball. The mulch should be kept at least two inches away from the trunk and shall be applied to each tree.
- **Mower guards**: For trees in turf areas requiring regular mowing, the tree stem shall be protected with Tree Guard or equivalent.
- **Tree Grates:** Where sidewalk width is less than 8-feet and new trees will be installed in a tree well, metal tree grates shall be used and approved by Public Works. Minimum size grates shall be 4' x 4' unless specified otherwise. All tree grates shall be mounted in frames inset into a concrete foundation within the sidewalk or surface material and shall be flush with the surrounding surface.

SOIL PREPARATION AND CONDITIONING

- All debris, wood chips, pavement, concrete and rocks over 2-inches in diameter shall be removed from the planting pit to a minimum of 24-inch depth, unless specified.
- Trees in a confined planter pit or sidewalk area: The planting hole shall be excavated to a minimum of 30-inches deep x the width of the exposed area. Scarify the sides of the pit. Soil beneath the root ball shall be compacted to prevent settling.

Trees in all other areas: Excavate the hole's width a minimum of three times the diameter of the container, and deep enough to allow the root ball of the container to rest on firm soil. Scarify the sides and the bottom of the pit. The height of the container root ball should be 1-2-inches higher than grade level, except when structural urban tree soil mix is used, in which case the tree may be planted at level grade.

If the soil is dry, add a few inches of water in the hole. Let it drain before planting the tree.

PLACING THE TREE

Roots: Remove tree from the container and trim the root ball in the following Way. Straighten and/or cut cleanly any thick circling roots. For thin roots, make three to four vertical cuts 1/2-inch deep around root ball and spread the bottom out if necessary

Orientation: Locate the tree in the hole, and rotate the tree to direct the main branches away from the street side, if possible.

Filling the Hole: Place the aeration tubes, fill the hole halfway up with original soil (amended soil only when approved), and gently tamp out air pockets with a pole or shovel handle. Add about 1 -inch of water, and let drain. Fill the rest of the hole to grade, water the fill soil, and let drain.

Staking: Place the stakes at the edge of the root ball (drive them 2-feet into undisturbed ground), and avoid contact with the branches. If in a windy area, set the stakes in a plane at right angles to the wind. Remove the nursery stake. Loosely place two ties in a figure eight around the trunk, as low as needed to hold the tree upright and nail to the stake. Stakes shall be trimmed so that the

branches clear the top of the stake. Do not install a cross-brace.

Berm, **Mulch and Water**: In non-turf areas, form a soil berm 3 to 4-inches high at the outermost edge of the root ball. Place 1 to 2-inches of mulch or bark over root ball and berm, keeping the mulch away from the trunk a minimum of 2-inches. Fill the berm with water to capacity.

Turf Areas: In turf areas that receive regular watering, the watering berm may be eliminated. The turf shall be maintained a minimum of one foot from the new tree stem, and mulch placed on top of the root ball. The mulch shall not be touching the tree stem.

Aeration Tubes for Trees: If required, 4-inch diameter perforated aeration tubes with grated plastic caps placed at the edge of the root ball to the bottom of the pit. Irrigation heads shall not be installed inside the aeration pipes. Any of the above holes, pipes, grates or fixtures shall include the installation of Filter Fabric wrap over the side openings and secured as recommended by manufacturer when connected to an approved aeration system.

Alternate Specifications: Occasionally, tree planting must occur in poor or difficult soil where standard planting techniques will result in poor-to-average performance or mortality (such as unique or unusual regional geology, slope,oil volume, restrictive physical or chemical properties, poor drainage, etc.). In this case, the responsible party must investigate alternative solutions to enable long term tree growth. Alternative planting specifications or plans that vary from the native or typical soil conditions shall be submitted to the *City Arborist* for approval prior to installation. Alternative or specified soils, such as engineered, amended or structural urban tree soil mix, including written specifications and physical samples, shall be submitted for approval from the City Arborist and/or Landscape Architect.

CONCLUSIONS

Of the 480 trees on site, 38% are trees regulated by City of West Linn ordinance. About 30 percent of the regulated trees are native Oregon Ash most which are in Poor to Very Poor condition and should be further evaluated for hazard risk. No trees qualifying for status as Heritage Trees were found.

Sincerely,

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Kay Kinyon Tree Care & Landscapes Unlimited, Inc. Certified Arborist by the International Society of Arboriculture, #PN-0409

APPENDIX 1--4260 Kenthorpe Way, 4245, 4305, 4315 Mapleton Drive Tree Assessment

NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS	AGE CLASS	TREE HEALTH	REGULATED	GROVE	COMMENTS
13082	Black Cottonwood	Populus trichocarpa	21	80	40	Fair	Dominant	Mature	Poor	Yes	Yes	6" x 24" cavity from ground on N. side.
13083	Black Cottonwood	Populus trichocarpa	23	90	45	Fair	Fair	Mature	Fair	Yes	Yes	
13084	Black Cottonwood	Populus trichocarpa	16	80	40	Fair	Dominant	Mature	Fair	Yes	Yes	
13084.1	Douglas Fir	Fraxinus latifolia	5	20	10	Fair	Below Canopy	Young	Poor	No	Yes	Girdled with staking wires.
13387	Shore Pine	Pinus contorta	8	25	15	Good	Below Canopy	Young	Good	No	Yes	
13388	Western Red Cedar	Thuja plicata	15	30	30	Good	Below Canopy	Young	Good	Yes	Yes	6 stems 10,6,6,7,3,3.
13389	Western Red Cedar	Thuja plicata	12	30	20	Good	Below Canopy	Young	Good	Yes	Yes	
13390	Callery Pear	Pyrus calleryana	5	20	15	Good	Below Canopy	Young	Good	No	Yes	
13390.1	Douglas Fir	Pseudotsuga menziesii	6	25	15	Good	Below Canopy	Young	Good	No	Yes	
13390.1	Douglas Fir	Pseudotsuga menziesii	6	25	15	Good	Below Canopy	Young	Good	No	Yes	
13402	Canadian Hemlock	Tsuga canadensis	8	25	15	Good	Single tree	Semi-mature	Good	No	No	
13429	Western Red Cedar	Thuja plicata	24	35	20	Fair	Co-dominant	Mature	Very Poor	Yes	Yes	24" x 20' cavity from ground on S. side.
13431	Grand Fir	Abies grandis	10	25	15	Good	Below Canopy	Young	Good	Yes	Yes	
13431.1	Western Red Cedar	Thuja plicata	4	20	10	Good	Below Canopy	Young	Good	No	Yes	
13431.2	Western Red Cedar	Thuja plicata	11	30	20	Good	Below Canopy	Young	Good	No	Yes	
13431.3	Western Red Cedar	Thuja plicata	6	20	10	Good	Below Canopy	Young	Good	No	Yes	
13431.4	Western Red Cedar	Thuja plicata	4	20	10	Good	Below Canopy	Young	Good	No	Yes	
13431.5	Western Red Cedar	Thuja plicata	5	20	10	Good	Below Canopy	Young	Good	No	Yes	
13431.6	Western Red Cedar	Thuja plicata	6	25	12	Good	Below Canopy	Young	Good	No	Yes	
13431.7	Western Red Cedar	Thuja plicata	11	30	12	Good	Below Canopy	Young	Good	No	Yes	
13431.8	Western Red Cedar	Thuja plicata	7	30	12	Good	Below Canopy	Young	Good	No	Yes	
13432	Western Red Cedar	Thuja plicata	39	40	25	Good	Co-dominant	Semi-mature	Good	Yes	Yes	
13433	Western Red Cedar	Thuja plicata	29	40	30	Good	Co-dominant	Mature	Poor	Yes	Yes	7" x 6' cavity from ground on W. side.
13434	Western Red Cedar	Thuja plicata	29	40	30	Good	Co-dominant	Mature	Poor	Yes	Yes	6" x 20' cavity from ground on W. side.
13435	Bigleaf Maple	Acer macrophyllum	39	70	40	Good	Dominant	Mature	Good	Yes	Yes	2 stems 26,29.
13437	Pacific Waxmyrtle	Myrica californica	11	20	25	Fair	Below Canopy	Mature	Poor	No	Yes	4 stems 7,7,3,4. Topped. Stem cavities.
13438	Pacific Waxmyrtle	Myrica californica	10	20	25	Fair	Below Canopy	Mature	Poor	No	Yes	Topped. Trunk cavity. Measured at 3' above ground.
13441	Bigleaf Maple	Acer macrophyllum	26	70	40	Fair	Co-dominant	Over-mature	Very Poor	Yes	Yes	3' x 3' cavity with bark inclusion from ground on W. side.
13442	Western Red Cedar	Thuja plicata	31	80	30	Good	Dominant	Mature	Good	Yes	Yes	
13443	Grand Fir	Abies grandis	28	80	20	Fair	Co-dominant	Over-mature	Poor	Yes	Yes	4" x 24" cavity from ground on W. side.
13463	Grand Fir	Abies grandis	30	60	25	Fair	Co-dominant	Mature	Poor	Yes	Yes	Thin crown.
13464	Grand Fir	Abies grandis	29	60	25	Fair	Co-dominant	Mature	Fair	Yes	Yes	
13542	Magnolia	Magnolia sp.	10	25	20	Good	Below Canopy	Young	Good	No	No	
13614	Western Red Cedar	Thuja plicata	11	30	20	Good	Co-dominant	Young	Good	No	No	
13615	Magnolia	Magnolia sp.	8	25	20	Good	Below Canopy	Young	Good	No	Yes	2 stems 6,5.
13616	Western Red Cedar	Thuja plicata	15	30	25	Good	Co-dominant	Young	Good	Yes	Yes	3 stems 8,7,10.
13617	Western Red Cedar	Thuja plicata	13	45	20	Good	Dominant	Semi-mature	Good	Yes	Yes	2 stems 10,8.
13617.1	Does Not Exist											Does Not Exist
13618	Blue Atlas Cedar	Cedrus atlantica 'Glauca'	14	50	25	Good	Dominant	Semi-mature	Good	Yes	Yes	
13619	Deodar Cedar	Cedrus deodara	18	60	30	Good	Dominant	Semi-mature	Good	Yes	Yes	
13620	Deodar Cedar	Cedrus deodara	19	50	25	Good	Dominant	Semi-mature	Good	Yes	Yes	
13621	Shore Pine	Pinus contorta	10	30	20	Fair	Co-dominant	Young	Poor	No	Yes	
13622	Shore Pine	Pinus contorta	10	30	15	Fair	Co-dominant	Young	Fair	No	Yes	
13623	Shore Pine	Pinus contorta	11	30	15	Fair	Co-dominant	Young	Poor	No	Yes	Borers.
13625	Shore Pine	Pinus contorta	9	30	15	Fair	Co-dominant	Young	Poor	No	Yes	
13626	Shore Pine	Pinus contorta	9	35	15	Fair	Co-dominant	Young	Poor	No	Yes	Thin crown. High crown. Borers.
13627	Shore Pine	Pinus contorta	11	35	15	Good	Co-dominant	Young	Good	No	Yes	
13628	Deodar Cedar	Cedrus deodara	15	45	20	Good	Co-dominant	Young	Good	Yes	Yes	
13629	Blue Atlas Cedar	Cedrus atlantica 'Glauca'	9	35	15	Good	Co-dominant	Young	Poor	No	Yes	Girdling root.
13630	Deodar Cedar	Cedrus deodara	14	40	20	Good	Co-dominant	Young	Good	Yes	Yes	· · ·
13631	Blue Atlas Cedar	Cedrus atlantica 'Glauca'	11	35	15	Good	Co-dominant	Young	Good	No	Yes	
13658	Bigleaf Maple	Acer macrophyllum	17	30	30	Good	Below Canopy	Young	Good	No	Yes	8 stems 8,5,8,5,6,7,4,4
13689	Pacific Waxmyrtle	Myrica californica	11	20	25	Fair	Below Canopy	Mature	Poor	Yes	Yes	6 stems 6,5,3,3,5,5. Cavities in all stems. Topped. Stem

NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS		TREE HEALTH	REGULATED	GROVE	COMMENTS
13690	Pacific Waxmyrtle	Myrica californica	9	12	15	Fair	Below Canopy	Mature	Poor	No	Yes	2 stems 6,3.
13728	Western Red Cedar	Thuja plicata	8	35	20	Fair	Co-dominant	Young	Good	No	Yes	
13728.1	Vine Maple	Acer circinatum	10	25	20	Good	Co-dominant	Young	Good	No	Yes	
13728.3	Oregon White Oak	Quercus garryana	14	25	25	Fair	Co-dominant	Young	Good	Yes	Yes	
13729	Western Red Cedar	Thuja plicata	13	35	20	Fair	Co-dominant	Young	Good	Yes	Yes	3 stems 5,10,7.
13730	Western Red Cedar	Thuja plicata	13	35	20	Fair	Co-dominant	Young	Good	Yes	Yes	2 stems 7,12.
13730.1	Vine Maple	Acer circinatum	10							No	Yes	
13736	Western Red Cedar	Thuja plicata	11	25	20	Fair	Co-dominant	Young	Good	No	Yes	
13737	Shore Pine	Pinus contorta	10	25	20	Fair	Co-dominant	Young	Good	No	Yes	
13738	Western Red Cedar	Thuja plicata	10	25	20	Fair	Co-dominant	Young	Good	No	Yes	
13739	Western Red Cedar	Thuja plicata	10	25	20	Fair	Co-dominant	Young	Good	No	Yes	
13739.1	Western Red Cedar	Thuja plicata	5	15	10	Fair	Co-dominant	Young	Good	No	Yes	
13739.2	Western Red Cedar	Thuja plicata	10	25	20	Fair	Co-dominant	Young	Good	No	Yes	
13836	Western Red Cedar	Thuja plicata	8	30	20	Good	Co-dominant	Young	Good	No	Yes	
13884	Oregon Ash	Fraxinus latifolia	8	50	20	Fair	Below Canopy	Semi-mature	Fair	No	Yes	
13884.1	Redosier Dogwood	Cornus sericea	5	20	10	Fair	Below Canopy	Mature	Fair	No	Yes	2 stems 4,2.
13885	Oregon Ash	Fraxinus latifolia	22	80	40	Fair	Dominant	Mature	Fair	Yes	Yes	
13885.1	Willow	Salix sp.	5	25	15	Fair	Below Canopy	Semi-mature	Fair	No	Yes	
13885.2	Oregon Ash	Fraxinus latifolia	27	90	50	Good	Dominant	Mature	Good	Yes	Yes	
13885.3	Oregon Ash	Fraxinus latifolia	5	25	15	Good	Below Canopy	Young	Good	No	Yes	2 stems 4.3.
13885.4	Oregon Ash	Fraxinus latifolia	21	80	40	Fair	Co-dominant	Over-mature	Very Poor	Yes	Yes	6" x 10' cavity from ground on N. side.
13885.5	Oregon Ash	Fraxinus latifolia	8	35	20	Poor	Below Canopy	Semi-mature	Poor	No	Yes	Suppressed.
13885.6	Plum	Prunus sp.	4	20	10	Poor	Below Canopy	Semi-mature	Poor	No	Yes	Suppressed.
13885.7	Western Red Cedar	Thuja plicata	21	60	25	Good	Co-dominant	Mature	Good	Yes	Yes	oupprossou.
13885.8	Oregon Ash	Fraxinus latifolia	19	70	40	Fair	Co-dominant	Mature	Fair	Yes	Yes	Bark inclusion in lower bole.
13885.9	Oregon Ash	Fraxinus latifolia	13	70	30	Fair	Co-dominant	Mature	Fair	Yes	Yes	Higher crown.
13886	Willow	Salix sp.	19	30	20	Poor	Below Canopy	Mature	Very Poor	Yes	Yes	4 stems 12,6,11,8. Severe cavities & decay all stems.
13886.1	Oregon White Oak	Quercus garryana	18	70	30	Fair	Co-dominant	Semi-mature	Fair	Yes	Yes	2 stems 10,15.
13886.3	Vine Maple	Acer circinatum	9	15	20	Good	Below Canopy	Mature	Good	No	Yes	2 310113 10,13.
13887	Willow	Salix sp.	10	25	20	Poor	Below Canopy	Mature	Very Poor	No	Yes	Broken top. Decay.
13960	Norway Maple	Acer platanoides	21	45	30	Good	Co-dominant	Mature	Fair	Yes	Yes	3" x 3' cavity from ground on S. side.
13960.1	Oregon Ash	Fraxinus latifolia	18	70	50	Fair	Dominant	Mature	Good	Yes	Yes	3 stems 13,11,7.
13960.4	Douglas Fir	Pseudotsuga menziesii	6	15	14	Good	Below Canopy	Young	Good	No	Yes	5 Stellis 15,11,7.
13960.4	Western Red Cedar	Thuja plicata	4	12	8	Fair	Below Canopy	Young	Fair	No	Yes	
13960.6	Western Red Cedar	Thuja plicata	4	12	8	Fair	Below Canopy	Young	Fair	No	Yes	
13960.7	Western Red Cedar	Thuja plicata	4	15	0	T dii	below carlopy	Toung	Dead	No	Yes	
13960.8	Redosier Dogwood	Thuja plicata	6	20	20	Fair	Below Canopy	Mature	Fair	No	Yes	2 stems 4,4
13960.9	Douglas Fir	Pseudotsuga menziesii	8	20	15	Good	Below Canopy	Young	Good	No	Yes	
13900.9	Douglas Fir	Pseudotsuga menziesii	7	25	15	Good	Below Canopy	Young	Good	No	Yes	
13985.1	Douglas Fir	Pseudotsuga menziesii	7	25	15	Good	Below Canopy	Young	Good	No	Yes	
13986	Douglas Fir	Pseudotsuga menziesii	9	25	15	Good	Below Canopy	Young	Good	No	Yes	
13986.1	Douglas Fir	Pseudotsuga menziesii Pseudotsuga menziesii	6	25	15	Good	Below Canopy	Young	Good	No	Yes	9' NW #13985, 8' NE #13986. Tag missing.
13986.2	Douglas Fir	Pseudotsuga menziesii Pseudotsuga menziesii	0	25	15	Good	Below Canopy	Young	Good	No	Yes	7 NWW #13703, 0 NE #13700. Tay IIIISSIIIY.
13986.2	Douglas Fir	Pseudotsuga menziesii Pseudotsuga menziesii	8	25	15	Good	Below Canopy	Young	Good	No	Yes	
13987	Sweet Cherry	Pseudotsuga menziesii Prunus avium	8	25	15	Fair	Below Canopy	Young	Fair	No	Yes	
13990.2	Western Red Cedar		6	25	15		17		Good	No	Yes	
		Thuja plicata				Good	Below Canopy	Young				2 ctome 4.4 E
13992	Sweet Cherry	Prunus avium	8	25	15	Fair	Below Canopy	Young Somi moturo	Fair	No	Yes	3 stems 4,4,5.
13992.1	Western Red Cedar	Thuja plicata	25	40'	40'	Fair	Co-dominant	Semi-mature	Poor	Yes	Yes	Topped.
13992.2	Douglas Fir	Pseudotsuga menziesii	9	30	20	Good	Below Canopy	Young	Good	No	Yes	
13992.3	Douglas Fir	Pseudotsuga menziesii	10	30	20	Good	Single tree	Young	Good	No	Yes	
13992.4	Oregon White Oak	Quercus garryana	34	90	60	Good	Dominant	Mature	Good	Yes	Yes	3 stems 27,15,15.
13992.5	Douglas Fir	Pseudotsuga menziesii	8	25	15	Good	Below Canopy	Young	Good	No	Yes	
13992.6	Red Maple	Acer rubrum	9	30	20	Good	Below Canopy	Young	Good	No	Yes	Appears to be off property.
14160	Western Red Cedar	Thuja plicate	11	30	25	Fair	Co dominant	Mature	Poor	No	Yes	Wound seam from ground to 18' above ground . Not 12".
14160.1	Pear, Common	Pyrus communis	14	30	25	Poor	Below canopy	Mature	Poor	No	Yes	2 stems 9,10. Fruit Tree
14163	European White Birch	Betula pendula	7	30	25				Dead	No		Dead.
14163.1	White Fir	Abies concolor	8	35	25	Poor	Co dominant	Mature	Poor	No	Yes	High crown Thin crown. Not 12".

NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS		TREE HEALTH	REGULATED	GROVE	COMMENTS
14163.2	English Holly	Ilex aquifolium	5	20	20	Fair	Below canopy	Semi-Mature	Fair	No	Yes	
14164	Spruce	Picea sp.	14	40	35	Fair	Co dominant	Semi-Mature	Good	Yes	Yes	
14165	Spruce	Picea sp.	10	30	20	Fair	Co dominant	Semi-Mature	Fair	No	Yes	Not 12".
14166	Giant Sequoia	Sequoiadendron giganteum	30	50	35	Good	Dominant	Mature	Good	Yes	Yes	
14167	Scotch Pine	Pinus sylvestris	17	40	30	Fair	Co dominant	Mature	Fair	Yes	Yes	
14168	Red Oak	Quercus rubra	25	55	50	Good	Dominant	Mature	Good	Yes	Yes	
14168.1	Douglas Fir	Pseudotsuga menziesii	5	30	20	Good	Below canopy	Young	Good	No	Yes	Not 12".
14168.2	Western Red Cedar	Thuja plicata	6	25	20	Good	Below canopy	Young	Good	No	Yes	Not 12".
14170	Common Apple	Malus pumila	23	35	35	Poor	Below canopy	Over-mature	Poor	No	Yes	Stag headed. Fruit tree.
14171	London Planetree	Platanus × acerifolia	30	50	50	Fair	Dominant	Mature	Fair	Yes	Yes	2" x 6" cavity at ground on E side.
14171.1	Western Red Cedar	Thuja plicata	7	25	15	Fair	Below canopy	Young	Fair	No	Yes	Not 12".
14171.2	Western Red Cedar	Thuja plicata	5	20	12	Poor	Below canopy	Young	Poor	No	Yes	Trunk cavity. Not 12"
14172	Western Red Cedar	Thuja plicata	5	20	12	Poor	Below canopy	Young	Poor	No	Yes	
14173	Spruce	Picea sp.	7	30	20	Poor	Below canopy	Semi-Mature	Poor	No	Yes	Suppressed. Not 12".
14174	Douglas Fir	Pseudotsuga menziesii	22	55	30	Good	Dominant	Mature	Good	Yes	Yes	
14175	Arborvitae	Thuja occidentalis	8	20	8	Poor	Below canopy	Mature	Fair	No	Yes	Not 12".
14176	Shore Pine	Pinus contorta	13	40	25	Poor	Below canopy	Mature	Poor	Yes	Yes	Old broken top.
14177	Western Red Cedar	Thuja plicata	9	20	15	Good	Below canopy	Young	Good	No	Yes	
14178	Western Red Cedar	Thuja plicata	9	25	20	Good	Below canopy	Young	Good	No	Yes	Not 12".
14179	Western Red Cedar	Thuja plicata	11	25	20	Good	Co dominant	Young	Good	No	Yes	Not 12".
14180	Oregon White Oak	Quercus garryana	21	50	45	Good	Dominant	Mature	Good	Yes	Yes	
14181	Douglas Fir	Pseudotsuga menziesii	12	35	20	Fair	Below canopy	Semi-Mature	Fair	Yes	Yes	
14183	Spruce	Picea sp.	10	30	25	Poor	Co dominant	Semi-Mature	Fair	No	No	Leans W. Not 12"
14184	Arborvitae	Thuja occidentalis	9	20	23	Poor	Below canopy	Mature	Fair	No	No	3 stems 3 stems 6,6,3. Not 12"
14187	Arborvitae	Thuja occidentalis	3	15	4	Poor	Below canopy	Mature	Poor	No	No	Not 12".
14107	Oregon White Oak	Quercus garryana	28	45	45	Good	Dominant	Mature	Good	Yes	No	NOT 12 .
14191	Plum	Prunus sp.	11	45 25	35	Very Poor	Below canopy	Over-mature	Fair	No	Yes	Not 12".
14196	Spruce	Picea sp.	23	25 45	35	Good	Co dominant	Mature	Good	Yes	Yes	NOL 12 .
14197	Scotch Pine	Picea sp. Pinus sylvestris	23 14	45 30	20	Poor	Co dominant	Mature	Poor	Yes	Yes	Thin crown.
14198	Spruce	Pinus sylvestris Picea sp.	14	30 45	20	Poor	Co dominant	Mature	Fair	Yes	Yes	Thin crown.
14199	Oregon Ash	Fraxinus latifolia	15	45 65	30	Very Poor	Co dominant	Over-mature	Very Poor	Yes	Yes	Stem failure at 30' above ground.
						-						
14200	Pine, Ponderosa	Pinus ponderosa	16	45	35	Fair	Co dominant	Mature	Poor	Yes	Yes	Thin crown.
14201	English Holly	Ilex aquifolium	8	20	15	Poor	Below canopy	Young	Fair	No	Yes	4 stems 5,4,4,3. Not 12"
14202	Pine, White	Pinus monticola	19	40	35	Good	Co dominant	Mature	Fair	Yes	Yes	
14203	Ponderosa Pine	Pinus ponderosa	4	12	10	Poor	Below canopy	Semi-Mature	Poor	No	Yes	Severe lean S. Suppressed. Not 12".
14204	Shore Pine	Pinus contorta	9	25	20	Poor	Below canopy	Mature	Poor	No	Yes	Not 12".
14206	Hinoki Falsecypress	Chamaecyparis obtusa	8	20	10	Poor	Below canopy	Mature	Poor	No	No	Not 12".
14217	Spruce	Picea sp.	10	30	20	Fair	Co dominant	Semi-Mature	Fair	No	Yes	Not 12".
14218	Red Alder	Alnus rubra	9	25	20	Fair	Co dominant	Young	Good	No	Yes	Not 12".
14219	Black Cottonwood	Populus trichocarpa	18	65	35	Fair	Dominant	Mature	Good	No	Yes	Off property.
14222	Douglas Fir	Pseudotsuga menziesii	6	20	12	Fair	Below canopy	Young	Fair	No	Yes	Not 12".
14224	European White Birch	Betula pendula	11	40	25	Fair	Co dominant	Mature	Poor	No	Yes	7" x 10' cavity from 6' to 16' above ground on W side. Not 12"
14227	Scotch Pine	Pinus sylvestris	20	40	30	Fair	Co dominant	Mature	Fair	Yes	Yes	High crown.
14228	Douglas Fir	Pseudotsuga menziesii	20	60	30	Fair	Dominant	Mature	Poor	Yes	Yes	
14228.1	Pine	Pine sp.	9	30	20	Poor	Co dominant	Mature	Poor	No	Yes	Suppressed. Not 12".
14228.2	European White Birch	Betula pendula	9	35	20	Poor	Co dominant	Semi-Mature	Poor	No	Yes	Leans S. Not 12"
14229	Western Red Cedar	Thuja plicata	19	30	20	Poor	Co dominant	Mature	Poor	Yes	Yes	Dead top. Root zone over filled.
14232	Spruce	Picea sp.	13	30	20	Fair	Co dominant	Mature	Fair	Yes	No	
14245	Oregon White Oak	Quercus garryana	20	45	35	Good	Dominant	Mature	Good	Yes	Yes	
14246	Black Cottonwood	Populus trichocarpa	8	30	20	Fair	Co dominant	Young	Fair	No	Yes	
14246.1	Black Cottonwood	Populus trichocarpa	5	20	15	Fair	Below canopy	Young	Fair	No	Yes	
14247	Black Cottonwood	Populus trichocarpa	7	30	20	Fair	Co dominant	Young	Fair	No	Yes	
14252	Oregon White Oak	Quercus garryana	30	55	40	Very Good	Dominant	Mature	Very Good	Yes	No	
14254	Giant Sequoia	Sequoiadendron giganteum	39	60	35	Good	Co dominant	Mature	Good	Yes	Yes	
14255	Arborvitae	Thuja occidentalis	5	15	5	Poor	Below canopy	Mature	Poor	No	No	Not 12".
14255	English Holly	Ilex aquifolium	6	20	16	Fair	Below canopy	Young	Fair	No	Yes	Not 12"
14200	LIGUSTITUTY	πελ αγμιτυπμπ	U	20	10	1 ali	below carlopy	Toung	1 dii	INU	162	1101 12

NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS	AGE CLASS	TREE HEALTH	REGULATED	GROVE	COMMENTS
14257	English Holly	Ilex aquifolium	6	20	15	Fair	Below canopy	Young	Fair	No	Yes	Not field tagged. Not 12"
14257.1	English Holly	Ilex aquifolium	6	20	15	Fair	Below canopy	Young	Fair	No	Yes	Not field tagged. Not 12"
14258	Arborvitae	Thuja occidentalis	4	15	5	Poor	Below canopy	Mature	Poor	No	No	Not 12".
14259	Shore Pine	Pinus contorta	8	30	12	Fair	Below canopy	Mature	Fair	No	No	Not 12".
14287	Willow	Salix sp.	11	40	35	Fair	Below canopy	Young	Fair	No	Yes	6 stems 5,5,5,4,4,4. Not 12"
14288	Black Cottonwood	Populus trichocarpa	6	35	15	Fair	Below canopy	Young	Fair	No	Yes	Not 12".
14289	Black Cottonwood	Populus trichocarpa	11	45	25	Fair	Below canopy	Young	Fair	No	Yes	Not 12".
14290	Black Cottonwood	Populus trichocarpa	7	35	15	Fair	Below canopy	Young	Fair	No	Yes	Not 12".
14291	Black Cottonwood	Populus trichocarpa	10	40	20	Fair	Below canopy	Young	Fair	No	Yes	Not 12".
14292	Black Cottonwood	Populus trichocarpa	9	35	20	Fair	Below canopy	Young	Fair	No	Yes	Not 12".
14305	Spruce	Picea sp.	18	40	25	Poor	Co dominant	Mature	Fair	Yes	Yes	
14312	Pacific Yew	Taxus brevifolia	14	20	30	Good	Below canopy	Mature	Good	Yes	Yes	
14313	Black Cottonwood	Populus trichocarpa	23	65	40	Fair	Co dominant	Youna	Fair	Yes	Yes	
14314	Black Cottonwood	Populus trichocarpa	18	55	30	Fair	Co dominant	Young	Fair	Yes	Yes	2 stems 16.8.
14315	Black Cottonwood	Populus trichocarpa	19	50	30	Fair	Co dominant	Young	Fair	Yes	Yes	2 stems 15.11
14319	Spruce	Picea sp.	18	45	30	Good	Co dominant	Mature	Good	Yes	Yes	
14320	Willow	Salix sp.	10	45	30	Poor	Below canopy	Mature	Fair	No	Yes	2 stems 6,8. High crown. Not 12".
14321	Black Cottonwood	Populus trichocarpa	22	70	45	Good	Co dominant	Mature	Good	Yes	Yes	
14321.1	Cherry, Sweet	Prunus avium	6	30	20	Fair	Below canopy	Young	Fair	No	Yes	Fruit tree.
14321.2	Cherry, Sweet	Prunus avium	5	30	20	Fair	Below canopy	Young	Fair	No	Yes	Fruit tree.
14321.3	Cherry, Sweet	Prunus avium	6	30	20	Fair	Below canopy	Young	Fair	No	Yes	Fruit tree.
14322	Bigleaf Maple	Acer macrophyllum	17	40	35	Fair	Co dominant	Mature	Fair	Yes	Yes	
14323	Oregon Ash	Fraxinus latifolia	9	35	20	Fair	Co dominant	Young	Fair	No	Yes	Not 12".
14323.1	Oregon Ash	Fraxinus latifolia	10	35	20	Fair	Co dominant	Young	Fair	No	Yes	Not 12".
14324	Oregon Ash	Fraxinus latifolia	12	50	30	Fair	Below canopy	Mature	Fair	Yes	Yes	
14324.1	Oregon Ash	Fraxinus latifolia	6	35	20	Poor	Below canopy	Young	Poor	No	Yes	Trunk cavity. Not 12"
14325	Oregon Ash	Fraxinus latifolia	15	60	30	Poor	Co dominant	Mature	Fair	Yes	Yes	2 stems 14,4. 4" stem is dead. Leans N.
14326	Oregon Ash	Fraxinus latifolia	13	55	30	Fair	Co dominant	Semi-Mature	Fair	Yes	Yes	
14326.1	Hawthorn, Common	Craetagus monogyna	6	20	15	Poor	Below canopy	Mature	Very Poor	No	Yes	Trunk cavity. Leans S. Not 12"
14327	Oregon Ash	Fraxinus latifolia	15	55	30	Poor	Below canopy	Over-mature	Very Poor	Yes	Yes	Broken top. 4" limb cavity at 6.5' above ground on E side.
14328	Oregon Ash	Fraxinus latifolia	24	70	40	Fair	Dominant	Mature	Fair	Yes	Yes	
14336	Spruce	Fraxinus latifolia	9	25	20	Fair	Below canopy	Young	Fair	No	Yes	
14337	Spruce	Picea	24	30	40	Good	Co dominant	Mature	Good	Yes	Yes	
14338	Pine, Ponderosa	Pinus ponderosa	17	40	30	Good	Dominant	Mature	Fair	Yes	No	
14339	Pine, Ponderosa	Pinus ponderosa	18	40	35	Poor	Co dominant	Mature	Fair	Yes	Yes	
14340	Hawthorn, English	Crataegus laevigata	14	25	30	Poor	Co dominant	Mature	Fair	Yes	Yes	2 stems 10,9.
14341	Western Red Cedar	Thuja plicata	20	30	40	Poor	Co dominant	Mature	Fair	Yes	Yes	Topped.
14342	Oregon Ash	Fraxinus latifolia	16	40	35	Fair	Below canopy	Young	Fair	Yes	No	4 stems 10,9,8,4.
14344	Douglas Fir	Pseudotsuga menziesii	10	20	15	Very Poor	Below canopy	Young	Very Poor	No	No	Broken top with cavity. Not 12"
14345	Oregon Ash	Fraxinus latifolia	15	50	40	Fair	Co dominant	Mature	Fair	Yes	Yes	5" x 7" cavity from 15' above ground to 22' above ground.
14347	Hawthorn, Common	Craetagus monogyna	6	25	20	Poor	Below canopy	Young	Fair	No	Yes	Measured at 3' above ground. Not 12"
14348	Common Apple	Malus pumila	6	25	25	Fair	Below canopy	Mature	Fair	No	Yes	Not 12". Fruit Tree.
14348.1	Black Locust	Robinia pseudoacacia	5	35	25	Poor	Below canopy	Young	Fair	No	Yes	Not 12".
14348.2	Black Locust	Robinia pseudoacacia	9	20	20	Poor	Below canopy	Young	Fair	No	Yes	2 stems 6,6. Not 12"
14348.3	Black Locust	Robinia pseudoacacia	10	25	25	Fair	Below canopy	Young	Fair	No	Yes	
14349	Oregon White Oak	Quercus garryana	30	60	50	Good	Dominant	Mature	Good	Yes	Yes	
14351	Pine, Ponderosa	Pinus ponderosa	16	35	25	Fair	Co dominant	Mature	Fair	Yes	Yes	
14352	Pine, Ponderosa	Pinus ponderosa	12	45	20	Poor	Co dominant	Young	Fair	Yes	Yes	Crooked trunk. High crown.
14353	Deodar Cedar	Cedrus deodara	28	40	40	Good	Co dominant	Mature	Fair	Yes	Yes	
14354	Pine	Pine sp.	14	30	25	Fair	Co dominant	Mature	Fair	Yes	Yes	
14355	Spruce	Picea sp.	15	50	25	Fair	Co dominant	Mature	Fair	Yes	Yes	
14362	Pear, Dwarf Fruiting	Pyrus communis	11	25	20	Fair	Below canopy	Mature	Poor	No	No	Thin crown. Leaf spot. Fruit tree.
14363	Pear, Dwarf Fruiting	Pyrus communis	5	15	12	Fair	Below canopy	Mature	Poor	No	No	2 stems 4,2. Thin crown. Leaf spot. Fruit tree
14364	Pear, Dwarf Fruiting	Pyrus communis	4	20	12	Fair	Below canopy	Mature	Poor	No	No	Thin crown. Leaf spot. Fruit tree.
14365	Hinoki Falsecypress	Chamaecyparis obtusa	22	55	30	Fair	Co dominant	Mature	Fair	Yes	Yes	
14365.1	English Holly	Ilex aquifolium	5	20	15	Poor	Below canopy	Young	Fair	No	Yes	Measured at 6" above ground. Not 12"
14366	Western Red Cedar	Thuja plicata	42	80	40	Fair	Dominant	Mature	Good	Yes	Yes	

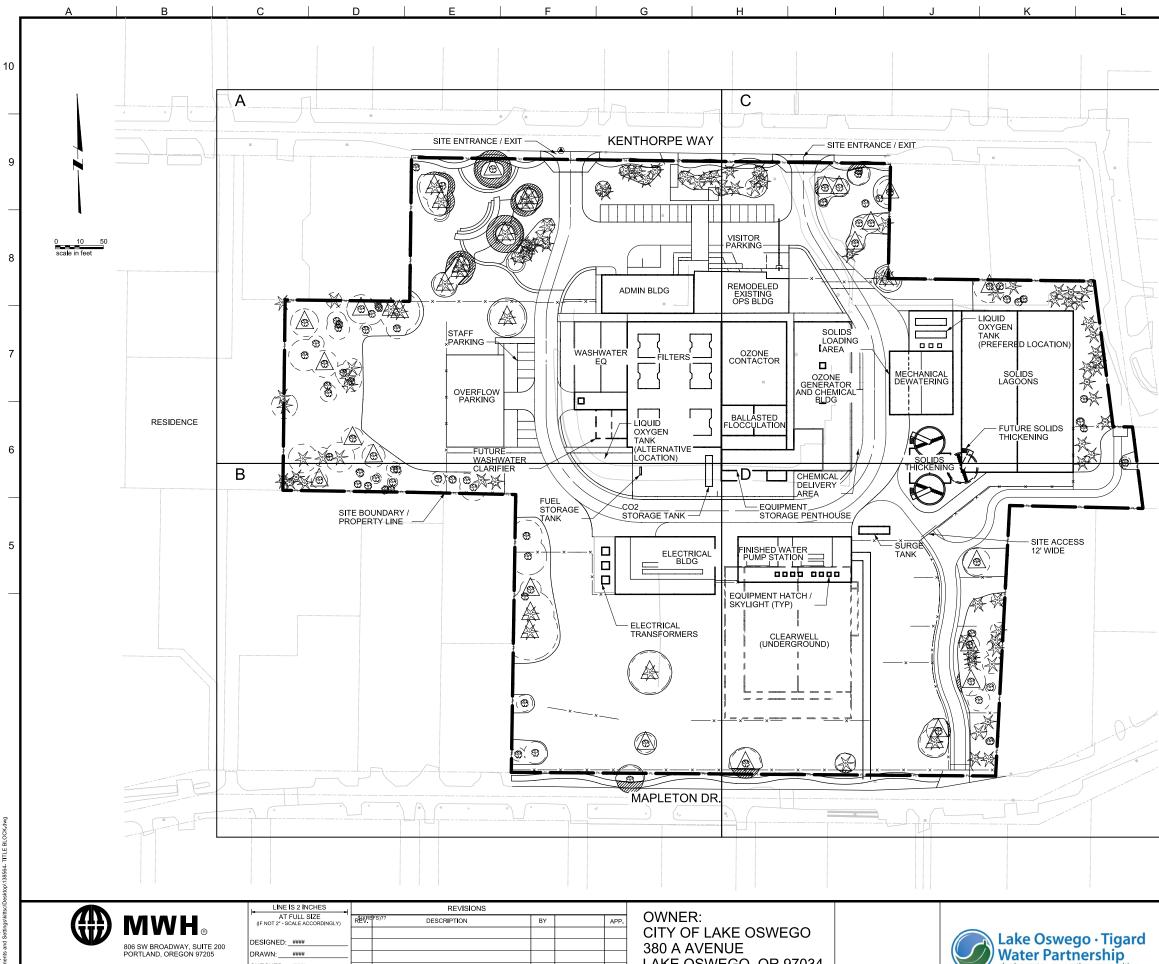
1411 Origin Ahn Fostor Mole 5 30 30 6od Betward program Young Good No No <th>NO.</th> <th>COMMON NAME</th> <th>BOTANICAL NAME</th> <th>DBH</th> <th>HEIGHT</th> <th>SPREAD</th> <th>FORM</th> <th>CROWN CLASS</th> <th>AGE CLASS</th> <th>TREE HEALTH</th> <th>REGULATED</th> <th>GROVE</th> <th>COMMENTS</th>	NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS	AGE CLASS	TREE HEALTH	REGULATED	GROVE	COMMENTS
11012 Stric Price Proceeding 5 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	14367	Oregon Ash	Fraxinus latifolia	30	65	45	Poor	Dominant	Over-mature	Very Poor		Yes	2 stems 24,18. 4" diameter cavity at 3' above ground on
1072 Dec Able Ables Able 20 50 40 Could Could Could Verse No 2 atoms 10.6 1403 Origen Abl Ables Able Million 20 33 Fail Below campy Mature Food No 2 atoms 10.6 Mature No 2 atoms 10.6 Mature No 2 atoms 10.6 Mature No Mature No <		Oregon Ash	Fraxinus latifolia			20	Good	Below canopy	Young	Good		No	Not 12"
1013 Oregon Anit France addres 28 50 Good Personal Mares Peod No 2 terms 11:0 10176 Ohrny Fording Proce addres 30 30 36 Fail Biolor catory Mares Peod No Abiot Processon No No </td <td>14372</td> <td>Shore Pine</td> <td>Pinus contorta</td> <td>5</td> <td></td> <td></td> <td>Fair</td> <td>Below canopy</td> <td>Young</td> <td>Good</td> <td>No</td> <td>No</td> <td>Not 12"</td>	14372	Shore Pine	Pinus contorta	5			Fair	Below canopy	Young	Good	No	No	Not 12"
11010 Cherry, Funding Proces adam 20 30 Far Below compy Manue Far													
14171 Derug, Fulling Parase selection 17 40 40 Fair Bits Pair No. No. No. 14178 Anthine Society, M. (applications' strand) 31 55 30 Fair Bits concept, Matter Fair No. No. 14191 Anthen Society, M. (applications' strand) 31 55 30 Fair Bits concept, Matter Fair No. No. 14291 Origen Adv Frains elificity 31 55 Gardian Constraint Ves. Ves. <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>													
1670 Amortan Soucaday Logidamar synamia 31 95 400 Fair Description Fair Yes No Nexure at 3 above around. First tree 1430 Common Apple Allela pumb 0 25 25 747 Relow campy Mature Fair No													Measured at 3' above ground. Fruit tree.
1137 Common Agelie Adales panile 8 33 30 Fair No Ho Ho Hose weards at 2 2 about ground. Frait tree 14380 Common Agelie Adales panile 9 52 Fair Bode campy No No How and 2 2 about 30.0 14391 Creases Adhu Frait no about 30.0 Deernature No No How and 2 2 about 30.0 14391 Creases Adhu Frait no about 30.0 Deernature No No How and 2 2 about 30.0 14391 Creases Adhu Frait no about 30.0 Deernature No No No How and 2 2 about 30.0 14391 Creases Adhu Frait no about 30.0 Deernature No								Below canopy					Fruit tree.
14300 Common Agel Mature is allow and in a common Agele No.								Dominant					
1431 Oregon Abn Foremoular Method 14 55 30 Fair Condemnant Matter Very Vers 2 doms 10.9. 14592 Oregon Abn Frakting Mithle 28 85 55 Good Derimatier Very Poor Ves Outed top. Net 10.7. 14592 Oregon Abn Frakting Mithle 21 50 400 Condemnant Matter Vers Condemnant Vers Condemnant Vers Vers Condemnant Vers		Common Apple						Below canopy	Mature	Fair		No	
1102 Oregin Abs Trastinu latificitie 28 8 5 6 Code Deminant Over-ranker Very Point Vers Cutties in trunk from ground up. 14392 Hesting Abs Trasting latificitie 13 55 10 Frain Codeminant Margin December 2000 Vers Vers <t< td=""><td></td><td>Common Apple</td><td></td><td></td><td></td><td></td><td></td><td>Below canopy</td><td>Mature</td><td></td><td></td><td></td><td></td></t<>		Common Apple						Below canopy	Mature				
11421 Handheim, Common Cotabage anonegone 6 25 15 Very Proof No. Yes Deat loc, Not Yes Press Deat loc, Not Yes		Oregon Ash						Co dominant	Mature			Yes	
11433 Oregan Abh Frakmis stilling 11 55 30 Fair Constrained Venture Yes Yes Yes Yes 11439 Oregan Abh Frakmis stilling 21 70 40 Poor Constrained Over-mature Poor Yes			Fraxinus latifolia	28			Good	Dominant	Over-mature			Yes	
1439 Gregon Ahn Frazius latifieda 21 70 40 Poor Co-dominant Over-mature Yes Yes Tot 3.5 catily from 416.25 above ground on N side. 1439 Gregon Ahn Frazius latifieda 20 80 55 Fair Dominant Over-mature Poor Ves <	14392.1	Hawthorn, Common					Very Poor	Below canopy	Over-mature	Very Poor		Yes	Dead top. Not 12".
1437 Oregon Ash Frazinos latificita 22 80 55 Fair Dominant Over-mature Peor Ves Ves Description 1438 Oregon Ash Frazinos latificita 22 55 Fair Beloak in crown. History diarge limb failure. 14391 Oregon Ash Frazinos latificita 22 55 Fair Beloak in crown. History diarge limb failure. 14400 Hourdon Link. Frazinos latificita 27 50 Poor Beloak crancy Ves Ves Ves 18* abor crancy Ves Ves 18* abor crancy Ves Ves 18* abor crancy Ves Ves 24 sms Not 24 sms Not 14400. 14400 Oregon Ash Frazinos latificita 19 53 30 Poor Conmant Were Poor Ves 3 stems 17.4.4 47 stems have being cavelies. 14401 Oregon Ash Frazinos latificita 19 65 35 Gond Condimiant Mature Ves 2 stems 22.1.8 coknot pose have being cavelies.													
1438 Oregon Ash Frazina billiolia 29 80 55 Fair Bole mark First Bole m													10" x 3.5' cavity from 4' to 7.5' above ground on N side.
14391 Oregon Abn Fraine billiolia 12 55 25 Fail Before cancey Semi-Muture Fair Yes Fraines 14399 Oregon Abn Fraines billiolia 27 75 50 Poor Dominant Over-mature Yes								Dominant	Over-mature				
14309 Oregon Ash Fraxinus lulfolia 27 75 50 Poor Dominant Over-mature Very Poor Yes Yes Tit " 40" calify from ground on S side ges all the way through trunk. 14400. Howrhorn, Common 6 225 Poor Below Mature Very Poor No Yes 2 stems. Job 12" 14400. Oregon Ash Fraxinus lutfolia 15 55 30 Poor Co dominant Mature Good Yes Yes Yes Yes 3 stems 12,7.4.4" &7" stems have large califies 14403 Oregon Ash Fraxinus lutfolia 15 55 30 Poor Co dominant Mature Good Yes Yes Yes Yes Yes 2 stems 22.1". Broken tops no both stems. History of large mature Interpretation of the stems and the stem poor Yes	14398	Oregon Ash	Fraxinus latifolia	29		55	Fair	Dominant	Over-mature	Poor	Yes	Yes	Die back in crown. History of large limb failure.
International control Contro Control <thcontrol< td="" th<=""><td>14397.1</td><td>Oregon Ash</td><td>Fraxinus latifolia</td><td>12</td><td></td><td>25</td><td>Fair</td><td>Below canopy</td><td>Semi-Mature</td><td>Fair</td><td>Yes</td><td>Yes</td><td></td></thcontrol<>	14397.1	Oregon Ash	Fraxinus latifolia	12		25	Fair	Below canopy	Semi-Mature	Fair	Yes	Yes	
14401.1 Common Hawthorn Common Hawthorn Franking kulfolia 15 25 25 Poor Below Mature Very Poor Yes Yes Texture kulfolia 14402 Oregon Ash Franking kulfolia 19 65 35 Good Co dominant Over-mature Good Yes Yes 2 stems 12.7.6. Thin crown. Stressed. 14403.0 Oregon Ash Franking kulfolia 15 55 30 Poor Over-mature Very Poor Yes Yes 2 stems 2.1.7.6. Thin crown. Stressed. 14403.1 Oregon Ash Franking kulfolia 15 65 35 Fair Co dominant Over-mature Very Poor Yes Yes 18" x 12" cavity from ground on s side. 14404.1 Oregon Ash Franking kulfolia 14 55 30 Fair Co dominant Over-mature Vers Yes Yes 18" x 12" cavity from ground on s side. 14404.1 Oregon Ash Fraking kulfolia 14 55 30 Fair Co dominant		Oregon Ash	Fraxinus latifolia				Poor	Dominant		Very Poor			through trunk.
14401 Oregon Ash Frazinus titlolia 15 55 30 Poor Code dominant Over-mature Poor Ves Yes 3 stems 12.7.6 Thin crown. Stressed. 14403 Oregon Ash Frazinus titlolia 25 70 40 Poor Dominant Over-mature Vers Yes 3 stems 12.7.6 Thin crown. Stressed. 14403 Oregon Ash Frazinus titlolia 25 70 40 Poor Dominant Over-mature Vers Yes 2 stems 52.17. Broken tops on bit stems. History of large limb faure. 14404.1 Oregon Ash Frazinus titlolia 18 65 45 Good Over-mature Very Poor Ves Ves 18", X1 2 cavity from ground on S side. 14404.1 Oregon Ash Frazinus titlolia 18 70 35 Fair Co dominant Over-mature Very Poor Ves Ves 18", X1 2 cavity from ground on S side. 14405.1 Oregon Ash Frazinus titlolia 16 60 40 Fair Co domina			Crataegus monogyna									Yes	2 stems . Not 12"
14402 Oregon Ash Fravinus tittolia 19 65 35 Good Coordinant Mature Good Yes	14400.1	Common Hawthorn					Poor	Below	Mature	Very Poor			
14403 Oregon Ash Fraxinus latifiliar 25 70 40 Poor Dominant Over-mature Vers Yes 2 stems 22.17. Broken tops on both stems. History of large full full full 14403.1 Oregon Ash Fraxinus littifiliar 18 65 45 Good Owninant Mature Good Vers	14401	Oregon Ash		15			Poor	Co dominant	Over-mature	Poor		Yes	
Integral integra							Good	Co dominant	Mature			Yes	
14404 Oregon Ash Fraxinus latifula 15 65 35 Fair Co dominant Over-mature Very Poor Yes Yes 18* 12* cavity from ground on S side. 14404.1 Oregon Ash Fraxinus latifula 14 55 30 Fair Co dominant Over-mature Very Poor Yes Yes 10* 24* s5* cavity from ground on S side. 14405.1 Hawthorn. Common Catalogus monograp 5 20 15 Poor Below canogy Mature Fair No Yes No Yes No No <td>14403</td> <td>Oregon Ash</td> <td>Fraxinus latifolia</td> <td>25</td> <td>70</td> <td>40</td> <td>Poor</td> <td>Dominant</td> <td>Over-mature</td> <td>Very Poor</td> <td>Yes</td> <td>Yes</td> <td></td>	14403	Oregon Ash	Fraxinus latifolia	25	70	40	Poor	Dominant	Over-mature	Very Poor	Yes	Yes	
14404.1 Oregon Ash Fraxtus Littlilar 18 70 35 Fair Co dominant Over-mature Very Poor Yes Yes 24'x 5' cavity from ground on E side. 14405 Oregon Ash Fraxtus Littlilar 16 60 40 Fair Co dominant Mature Poor Yes Yes 10'' x 24'' cavity from ground on E side. 14405 Oregon Ash Fraxtus Littlilar 16 60 40 Fair Co dominant Mature Fair No Yes Nes 10'' x 24'' cavity from ground on E side. 144061 Hawthorn, Common Cratalegus monogyna 12 40 20 Poor Below canopy Mature Fair Yes Messured at '' above ground. 14407.1 Oregon Ash Fraxitus Littlilar 9 45 25 Poor Below canopy Young Fair No Yes 3''''''''''''''''''''''''''''''''''''	14403.1	Oregon White Oak	Quercus garryana	18	65	45	Good	Dominant	Mature	Good	Yes	Yes	
1440-2 Oregon Ash Fraximus latifolia 14 55 30 Frai Co dominant Worr-mature Very Poor Yes Yes Yes Attem production 14405.1 Hawthorn, Common Cratagus monogyna 5 20 15 Poor Below canopy Mature Fair Yes Ves Most No Yes No Yes Attem product at 1/a los 24° cavity from ground on E side. 14405.1 Hawthorn, Common Cratagus monogyna 12 40 20 Poor Below canopy Mature Fair Yes Mesured at 1'above ground. 14407.1 Oregon Ash Fraxinus latifolia 9 40 25 Fair Below canopy Young Fair No Yes 3'stem 7.6. Located at 4245 Mapleton Dr. Not 12" 14407.2 Oregon Ash Fraxinus latifolia 9 45 25 Poor Below canopy Young Fair No No 2 stems 7.6. Located at 4245 Mapleton Dr. Not 12" 14411 Sweet Cherry Prunus avium <td< td=""><td>14404</td><td>Oregon Ash</td><td>Fraxinus latifolia</td><td>15</td><td>65</td><td>35</td><td>Fair</td><td>Co dominant</td><td>Over-mature</td><td>Very Poor</td><td>Yes</td><td>Yes</td><td>18" x 12' cavity from ground on S side.</td></td<>	14404	Oregon Ash	Fraxinus latifolia	15	65	35	Fair	Co dominant	Over-mature	Very Poor	Yes	Yes	18" x 12' cavity from ground on S side.
14405 Oregon Ash Fraxirus latifolia 16 60 40 Fair Co dominant Mature Poor Yes Yes 4 stems 2,11.4. 18 x 24" cavity from ground on E side. 14405.1 Hawthorn, Common Crataegus monogyna 12 40 20 Poor Below canopy Mature Fair No Yes Neasured at 1" above ground. 14407 Hawthorn, Common Crataegus monogyna 16 45 35 Fair Below canopy Mature Fair Yes Yes Measured at 1" above ground. 14407.1 Hawthorn, Common Crataegus monogyna 16 45 25 Fair Below canopy Young Fair No Yes Yes Measured at 1" above ground. 14407.1 Oregon Ash Fraxirus latifolia 9 45 25 Poor Relow canopy Young Fair No No 2 stems 7.6. Located at 4245 14411 Sweet Cherry Purus avium 10 25 20 Fair Below canopy Young<	14404.1	Oregon Ash		18		35	Fair	Co dominant	Over-mature	Very Poor		Yes	
1 Hawthorn, Common Crataegus monogyna 5 20 15 Poor Below canopy Mature Fair No. Yes Not 12" 14406 Hawthorn, Common Crataegus monogyna 16 45 35 Fair Below canopy Mature Fair Yes Measured at 1' above ground. 14407 Howthorn, Common Crataegus monogyna 16 45 35 Fair Below canopy Muture Fair Yes Yes Measured at 1' above ground. 14407.1 Oregon Ash Fraktinus latifolia 9 45 25 Poor Below canopy Young Fair No Yes X*s 10° cavit from ground on Nide. Located at 4245 14411 Sweet Cherry Prunus avium 10 25 20 Fair Below canopy Young Fair No No No 2 stems 7, 0. Mapleton Dr. Not 12" 14411 Sweet Cherry Prunus avium 10 25 20 Fair Dorinant Mature Poor Yes	14404.2	Oregon Ash	Fraxinus latifolia	14			Fair	Co dominant	Over-mature	Very Poor		Yes	10" x 24" cavity from ground on E side.
14406 Hawthorn, Common Crataegus monogyna 12 40 20 Poor Below canopy Mature Fair Yes Measured at 1' above ground. 14407 Hawthorn, Common Crataegus monogyna 16 45 35 Fair Below canopy Mature Fair Yes Measured at 1' above ground. 14407.1 Oregon Ash Fraxinis faitfolia 9 40 25 Fair Below canopy Young Fair No Yes Xestred at 1' above ground. 14407.1 Oregon Ash Fraxinis faitfolia 9 45 25 Poor Below canopy Young Poir No Yes 3'' a 10'' cont'' 3''' a 10'' cont'' Sitem 5/.5 Cated at 4245 Mapton Dr. Not 12'' Sitem 5/.5 Thi crown. No No 2 stems 7/.5 No No 14421	14405	Oregon Ash	Fraxinus latifolia	16			Fair	Co dominant	Mature	Poor			
14407 Hawthorn, Common Cratalegus monogyna 16 45 35 Fair Below canopy Mature Fair No Yes Measured at 1'above ground. 14407.1 Oregon Ash Fraxinus latifolia 9 40 25 Fair Below canopy Young Fair No Yes 2 stems 7,6. Located at 4245 Mapleton Dr. Not 12" 14407.2 Oregon Ash Fraxinus latifolia 9 45 Z5 Poor Below canopy Young Fair No Yes 3'' to" cavity from ground on N side. Located at 4245 14411 Sweet Cherry Prunus avium 10 25 20 Fair Below canopy Young Fair No No 2 stems 7,7. Mapleton Dr. Not 12" 14411 European White Birch Betula pendula 15 65 40 Poor Dominant Mature Poor Yes Thin crown. 14421.1 European White Birch Betula pendula 20 65 40 Fair Dominant Mature Poor <td>14405.1</td> <td>Hawthorn, Common</td> <td>Crataegus monogyna</td> <td>5</td> <td>20</td> <td>15</td> <td>Poor</td> <td>Below canopy</td> <td>Mature</td> <td>Fair</td> <td>No</td> <td>Yes</td> <td>Not 12"</td>	14405.1	Hawthorn, Common	Crataegus monogyna	5	20	15	Poor	Below canopy	Mature	Fair	No	Yes	Not 12"
14407.1 Oregon Ash Fraxinus latifolia 9 40 25 Fair Below canopy Young Fair No Yes 2 stems 7,6. Located at 4245 Mapleton Dr. Not 12" 14407.2 Oregon Ash Fraxinus latifolia 9 45 25 Poor Below canopy Young Poor No Yes 2 stems 7,6. Located at 4245 Mapleton Dr. Not 12" 14411 Sweet Cherry Prunus avium 10 25 20 Fair Below canopy Young Fair No No Xes 3" x 10" cavity from ground on N side. Located at 4245 14411 Sweet Cherry Prunus avium 10 25 20 Fair Below canopy Young Fair No No Xes 3" x 10" cavity from ground on N side. Located at 4245 14411 European White Birch Betula pendula 15 65 40 Poor Dominant Mature Poor Yes Yes Thin crown. 14421.3 Giant Sequola Sequoladendron piganteum	14406	Hawthorn, Common	Crataegus monogyna	12	40	20	Poor	Below canopy	Mature	Fair	Yes	Yes	Measured at 1' above ground.
14407.2Oregon AshFraxinus latifolia94525PoorBelow canopyYoungPoorNoYes3" x 10" cavity from ground on N side. Located at 4245 Majeton Dr. No 12".14411Sweet CherryPrunus avium102520FairBelow canopyYoungFairNoNo2 stems 7,7.14418European White BirchBetula pendula196540PoorDominantMaturePoorYesYesThin crown.14421American SweetgumLiquidambar styraciffua237040GoodDominantMaturePoorYesYesYes14421.1European White BirchBetula pendula206540FairDominantMaturePoorYesYes14421.3European White BirchBetula pendula166040FairDominantMaturePoorYesYes14421.3Giant SequolaSequoladendron giganteum438040FairDominantMaturePoorYesNo2 stems 27.014421.3Giant Sequola6550PoorDominantMatureGoodNoNoOff property in Majeton R/W.14421.4American ElmUlmus americana296550PoorDominantMaturePoorYesYes14421.3Giant SequolaCaperwriteLagerxtroemia'sp.102040GoodBelow canopyMatureR	14407	Hawthorn, Common	Crataegus monogyna	16		35	Fair	Below canopy	Mature	Fair		Yes	
Image: Constraint of the second sec	14407.1	Oregon Ash	Fraxinus latifolia	-			Fair	Below canopy	Young	Fair		Yes	2 stems 7,6. Located at 4245 Mapleton Dr. Not 12"
14418European White BirchBetula pendula196540PoorDominantMaturePoorYesYesThin crown.14419European White BirchBetula pendula156540PoorDominantMaturePoorYesYesThin crown.14421.4American Strvacifux237040GoodDominantMaturePoorYesYesYesThin crown.14421.1European White BirchBetula pendula206540FairDominantMaturePoorYesYesYes14421.2European White BirchBetula pendula166040FairDominantMaturePoorYesYesYes14421.3Giant Sequola Action giganteum438040FairDominantMaturePoorYesYesNo2 stems 27,3014421.3Giant Sequola Action giganteum438040FairDominantMaturePoorYesYesNo2 stems 27,3014431.3Grapen White OakOuercus garryana182530FairCo dominantMaturePoorYesYesDie back in crown. Supect Dutch Elm disease.14438.1CrapemyrtleLagerstroemia sp.102040GoodBelow canopyMatureGoodNoNoNoOff property in Mapleton R/W.14438.2European White BirchBetula pendula164030 <td>14407.2</td> <td>Oregon Ash</td> <td>Fraxinus latifolia</td> <td>9</td> <td>45</td> <td>25</td> <td>Poor</td> <td>Below canopy</td> <td>Young</td> <td>Poor</td> <td>No</td> <td>Yes</td> <td></td>	14407.2	Oregon Ash	Fraxinus latifolia	9	45	25	Poor	Below canopy	Young	Poor	No	Yes	
14419European White BirchBetula pendula156540PoorDominantMaturePoorYesYesThin crown.14421American SweetgumLiquidambar styracifitua237040GoodDominantMatureGoodYesYesYes14421.1European White BirchBetula pendula166040FairDominantMaturePoorYesYesYes14421.3Giant SequoiaSequoladendron giganteum438040FairDominantMatureGoodYesNo2 stems 27,3014435American ElmUlmus americana296550PoorDominantMatureGoodNoNoOff property in Mapleton RW.14438.1CragenyrtiteLagerstroemia sp.102040GoodBelow canopyMatureGoodNoNoMeasured at ground. Not 12"14438.2European White BirchBetula pendula164030PoorDominantMatureGoodNoNoMeasured at 1" above ground. Not 12"14438.1CragensyriteLagerstroemia sp.1020GoodBelow canopyMatureGoodYesYesMeasured at 1" above ground. Not 12".14438.2European White BirchBetula pendula164030PoorDominantMatureGoodNoNoMoMo14438.2European White BirchBetula pendula16	14411	Sweet Cherry	Prunus avium	10	25	20	Fair	Below canopy	Young	Fair	No	No	2 stems 7,7.
14421American SweetgumLiquidambar styraciflua237040GoodDominantMatureGoodYesYes14421.1European White BirchBetula pendula206540FairDominantMaturePoorYesYes14421.2European White BirchBetula pendula166040FairDominantMaturePoorYesYes14421.3Giant SequoiaSequoiadendron giganteum438040FairDominantMatureGoodYesNo2 stems 27,3014425American ElmUlmus americana296550PoorDominantMaturePoorYesYesDie back in crown. Suspect Dutch Elm disease.14438.1CrapemyrtleLagerstroemia sp.102040GoodBelow canopyMatureGoodNoNoMeasured at ground. Not 12"14438.2European White BirchBetula pendula164030PoorDominantMatureGoodNoNoMeasured at ground. Not 12"14438.4CrapemyrtleLagerstroemia sp.102040GoodBelow canopyMaturePoorYesYesTin cown.14441Japanese MapleAcer palmatum72020GoodBelow canopyMatureGoodYesYesNoNoNo1014455SprucePicea sp.93025FairCo dominant<	14418	European White Birch	Betula pendula	19	65	40	Poor	Dominant	Mature	Poor	Yes	Yes	Thin crown.
14421.1European White BirchBetula pendula206540FairDominantMaturePoorYesYes14421.2European White BirchBetula pendula166040FairDominantMaturePoorYesYes14421.3Giant SequoiaSequoiadendron giganteum438040FairDominantMatureGoodYesNo2 stems 27,3014435American ElmUlmus americana296550PoorDominantMatureGoodNoNoOff property in Mapleton R/W.14438.1CrapemyrtleLagerstroemia sp.102040GoodBelow canopyMatureGoodNoNoMoMeasured at ground. Not 12"14438.1CrapemyrtleLagerstroemia sp.102040GoodBelow canopyMatureGoodNoNoNoMeasured at ground. Not 12"14438.1CrapemyrtleLagerstroemia sp.102040GoodBelow canopyMatureGoodNoNoNoMeasured at ground. Not 12"14438.1Luropean White BirchBetula pendula164030PoorDominantMatureGoodNoNoNoMeasured at ground. Not 12"14438.2European White BirchBetula pendula173035FairCo dominantYesYesYesMeasured at 1' above ground. Not 12"14456SprucePicea sp. <t< td=""><td>14419</td><td>European White Birch</td><td>Betula pendula</td><td>15</td><td>65</td><td>40</td><td>Poor</td><td>Dominant</td><td>Mature</td><td>Poor</td><td>Yes</td><td>Yes</td><td>Thin crown.</td></t<>	14419	European White Birch	Betula pendula	15	65	40	Poor	Dominant	Mature	Poor	Yes	Yes	Thin crown.
14421.2European White BirchBetula pendula166040FairDominantMaturePoorYesYes14421.3Giant SequolaSequoladendron giganteum438040FairDominantMatureGoodYesNo2 stems 27,3014435American ElmUllnus americana296550PoorDominantMaturePoorYesYesDie back in crown. Suspect Dutch Elm disease.14438Oregon White OakOuercus garryana182530FairCo dominantMatureGoodNoNoOff property in Mapleton R/W.14438.1CrapemyrtleLagerstroemia sp.102040GoodBelow canopyMatureGoodNoNoMeasured at ground. Not 12"14438.2European White BirchBetula pendula164030PoorDominantMaturePoorYesYesThin crown.14441Japanese MapleAcer patimatum72020GoodBelow canopyMatureGoodYesYesMeasured at 1' above ground. Not 12".14456SprucePicea sp.93025FairCo dominantMatureFairNoNoTopped. Fruit Tree14457English WalnutJugians regia173035FairCo dominantMatureFairNoNoTopped. Fruit Tree14460Common AppleMalus pumila21253	14421	American Sweetgum	Liquidambar styraciflua	23	70	40	Good	Dominant	Mature	Good	Yes	Yes	
14421.3Giant SequoiaSequoiadendron giganteum438040FairDominantMatureGoodYesNo2 stems 27,3014435American ElmUlmus americana296550PoorDominantMaturePoorYesYesDie back in crown. Suspect Dutch Elm disease.14438Oregon White OakOuercus garryana182530FairCo dominantMatureGoodNoNoOff property in Mapteon R/W.14438.1CrapemyrtleLagerstroema sp.102040GoodBelow canopyMatureGoodNoNoMesured at ground. Not 12"14438.2European White BirchBetula pendula164030PoorDominantMaturePoorYesYesMeasured at 1' above ground. Not 12".14445SprucePicea sp.93025FairCo dominantYoungFairNoNoNoNot 12".14457English WalnutJuglans regia173035FairCo dominantMatureFairNoYesNot 12".14460Common AppleMalus pumila212530PoorCo dominantMatureFairNoYesTopped. Fruit Tree14461Common AppleMalus pumila122020PoorBelow canopyMatureFairNoYesTopped. Fruit Tree14463Common AppleMalus pumila2125 <td>14421.1</td> <td>European White Birch</td> <td>Betula pendula</td> <td>20</td> <td>65</td> <td>40</td> <td>Fair</td> <td>Dominant</td> <td>Mature</td> <td>Poor</td> <td>Yes</td> <td>Yes</td> <td></td>	14421.1	European White Birch	Betula pendula	20	65	40	Fair	Dominant	Mature	Poor	Yes	Yes	
14435American ElmUlmus americana296550PoorDominantMaturePoorYesYesDie back in crown. Suspect Dutch Elm disease.14438Oregon White Oak <i>Quercus garryana</i> 182530FairCo dominantMatureGoodNoNoOff property in Mapleton R/W.14438.1Crapemytle <i>Lagerstroemia</i> sp.102040GoodBelow canopyMatureGoodNoNoMeasured at ground. Not 12"14438.2European White Birch <i>Betula pendula</i> 164030PoorDominantMaturePoorYesYesThin crown.14436.5Spruce <i>Betula pendula</i> 164030PoorDominantMatureGoodYesYesThin crown.14456Spruce <i>Picea sp.</i> 93025FairCo dominantYoungFairNoYesNoNo14457English Walnut <i>Juglans regia</i> 173035FairCo dominantMatureFairNoNoTopped. Fruit Tree14459Common Apple <i>Malus pumila</i> 212530PoorCo dominantMatureFairNoYesTopped. Fruit Tree14460Common Apple <i>Malus pumila</i> 122020PoorBelow canopyMatureFoorNoYesTopped. Fruit Tree14463Common Apple <i>Malus pumila</i> 122020Poo	14421.2	European White Birch	Betula pendula	16	60	40	Fair	Dominant	Mature	Poor	Yes	Yes	
14438Oregon White OakOuercus garryana182530FairCo dominantMatureGoodNoNoOff property in Mapleton R/W.14438.1CrapemyrtleLagerstroemia sp.102040GoodBelow canopyMatureGoodNoNoNoMeasured at ground. Not 12"14438.2European White BirchBetula pendula164030PoorDominantMaturePoorYesYesThin crown.14441Japanese MapleAcer palmatum72020GoodBelow canopyMatureGoodYesYesMeasured at ground. Not 12".14456SprucePicea sp.93025FairCo dominantYoungFairNoYesNoNoTopped. Fruit Tree14457English WalnutJuglans regia173035FairCo dominantMatureFairNoNoTopped. Fruit Tree14460Common AppleMalus pumila212530PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14461Common AppleMalus pumila122020PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14463Common AppleMalus pumila122020PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14463Common AppleMalus pumila1220 <td>14421.3</td> <td>Giant Sequoia</td> <td>Sequoiadendron giganteum</td> <td>43</td> <td>80</td> <td>40</td> <td>Fair</td> <td>Dominant</td> <td>Mature</td> <td>Good</td> <td>Yes</td> <td>No</td> <td>2 stems 27,30</td>	14421.3	Giant Sequoia	Sequoiadendron giganteum	43	80	40	Fair	Dominant	Mature	Good	Yes	No	2 stems 27,30
14438.1CrapemyrtleLagerstroemia sp.102040GoodBelow canopyMatureGoodNoNoMeasured at ground. Not 12"14438.2European White BirchBetula pendula164030PoorDominantMaturePoorYesYesThin crown.14441Japanese MapleAcer palmatum72020GoodBelow canopyMatureGoodYesYesMeasured at 1' above ground. Not 12".14456SprucePicea sp.93025FairCo dominantYoungFairNoYesNot 12"14457English WalnutJuglans regia173035FairCo dominantMatureFairNoNoTopped. Fruit Tree14460Common AppleMalus pumila233530PoorCo dominantMatureFairNoYesTopped. Fruit Tree14461Common AppleMalus pumila212530PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14463Common AppleMalus pumila122020PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14463Common AppleMalus pumila122020PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14463Common AppleMalus pumila122020PoorBelow canopyMa	14435	American Elm	Ulmus americana	29	65	50	Poor	Dominant	Mature	Poor	Yes	Yes	Die back in crown. Suspect Dutch Elm disease.
14438.2European White BirchBetula pendula164030PoorDominantMaturePoorYesYesThin crown.14441Japanese MapleAcer palmatum72020GoodBelow canopyMatureGoodYesYesMeasured at 1' above ground. Not 12".14456SprucePicea sp.93025FairCo dominantYoungFairNoYesNot 12"14457English WalnutJuglans regia173035FairCo dominantMatureFairNoNoTopped. Fruit Tree14459Common AppleMalus pumila233530PoorCo dominantMatureFairNoYesTopped. Fruit Tree14460Common AppleMalus pumila212530PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14461Common AppleMalus pumila122020PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14463Common AppleMalus pumila122020PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14463Common AppleMalus pumila142020PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14463Common AppleMalus pumila142020PoorBelow canopyMatureP	14438	Oregon White Oak	Quercus garryana	18	25	30	Fair	Co dominant	Mature	Good	No	No	Off property in Mapleton R/W.
14441Japanese MapleAcer palmatum72020GoodBelow canopyMatureGoodYesYesMeasured at 1' above ground. Not 12".14456SprucePicea sp.93025FairCo dominantYoungFairNoYesNot 12"14457English WalnutJuglans regia173035FairCo dominantMatureFairNoNoTopped. Fruit Tree14459Common AppleMalus pumila233530PoorCo dominantMatureFairNoYesTopped. Fruit Tree14460Common AppleMalus pumila212530PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14461Common AppleMalus pumila122020PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14463Common AppleMalus pumila142020PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14464Red AlderAlnus rubra73020GoodCo dominantSemi-matureGoodNoYesNot 12".	14438.1	Crapemyrtle	Lagerstroemia sp.				Good	Below canopy	Mature	Good		No	Measured at ground. Not 12"
14441Japanese MapleAcer palmatum72020GoodBelow canopyMatureGoodYesYesMeasured at 1' above ground. Not 12".14456SprucePicea sp.93025FairCo dominantYoungFairNoYesNot 12"14457English WalnutJuglans regia173035FairCo dominantMatureFairNoNoTopped. Fruit Tree14459Common AppleMalus pumila233530PoorCo dominantMatureFairNoYesTopped. Fruit Tree14460Common AppleMalus pumila212530PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14461Common AppleMalus pumila122020PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14463Common AppleMalus pumila142020PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14476Red AlderAlnus rubra73020GoodCo dominantSemi-matureGoodNoYesNot 12".	14438.2	European White Birch	Betula pendula	16		30	Poor	Dominant	Mature	Poor	Yes	Yes	Thin crown.
14456SprucePicea sp.93025FairCo dominantYoungFairNoYesNot 12"14457English WalnutJuglans regia173035FairCo dominantMatureFairNoNoTopped.Fruit Tree14459Common AppleMalus pumila233530PoorCo dominantMatureFairNoYesTopped.Fruit Tree14460Common AppleMalus pumila212530PoorBelow canopyMaturePoorNoYesTopped.Fruit Tree14461Common AppleMalus pumila122020PoorBelow canopyMaturePoorNoYesTopped.Fruit Tree14463Common AppleMalus pumila142020PoorBelow canopyMaturePoorNoYesTopped.Fruit Tree14476Red AlderAlnus rubra73020GoodCo dominantSemi-matureGoodNoYesNot 12".	14441	Japanese Maple	Acer palmatum	7	20	20	Good	Below canopy	Mature	Good	Yes	Yes	
14459Common AppleMalus pumila233530PoorCo dominantMatureFairNoYesTopped. Fruit Tree14460Common AppleMalus pumila212530PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14461Common AppleMalus pumila122020PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14463Common AppleMalus pumila142020PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14476Red AlderAlnus rubra73020GoodCo dominantSemi-matureGoodNoYesNot 12".	14456			9	30		Fair		Young	Fair		Yes	Not 12"
14460Common AppleMalus pumila212530PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14461Common AppleMalus pumila122020PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14463Common AppleMalus pumila142020PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14463Common AppleMalus pumila142020PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14476Red AlderAlnus rubra73020GoodCo dominantSemi-matureGoodNoYesNot 12".	14457	English Walnut	Juglans regia	17	30	35	Fair	Co dominant	Mature	Fair	No	No	Topped. Fruit Tree
14460Common AppleMalus pumila212530PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14461Common AppleMalus pumila122020PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14463Common AppleMalus pumila142020PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14463Common AppleMalus pumila142020PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14476Red AlderAlnus rubra73020GoodCo dominantSemi-matureGoodNoYesNot 12".	14459			23	35	30	Poor	Co dominant		Fair	No	Yes	
14461Common AppleMalus pumila122020PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14463Common AppleMalus pumila142020PoorBelow canopyMaturePoorNoYesTopped. Fruit Tree14476Red AlderAlnus rubra73020GoodCo dominantSemi-matureGoodNoYesNot 12".	14460			21	25	30	Poor	Below canopy	Mature	Poor	No	Yes	
14463 Common Apple Malus pumila 14 20 20 Poor Below canopy Mature Poor No Yes Topped. Fruit Tree 14476 Red Alder Alnus rubra 7 30 20 Good Co dominant Semi-mature Good No Yes Not 12".								1.7	Mature	Poor		Yes	
14476 Red Alder Alnus rubra 7 30 20 Good Co dominant Semi-mature Good No Yes Not 12".													
												Yes	
		Oregon Ash		8				Below canopy	Young	Good		Yes	

NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS	AGE CLASS	TREE HEALTH	REGULATED	GROVE	COMMENTS
14478	Giant Sequoia	Sequoiadendron giganteum	59	95	45	Good	Dominant	Mature	Good	Yes	Yes	
14479	Giant Sequoia	Sequoiadendron giganteum	49	110	50	Good	Dominant	Mature	Good	Yes	Yes	
14480	Oregon White Oak	Quercus garryana	22	55	30	Fair	Co dominant	Mature	Poor	Yes	Yes	3" x 14" cavity from 1' above ground on W side.
14481	Oregon Ash	Fraxinus latifolia	16	55	30	Fair	Co dominant	Mature	Fair	Yes	Yes	
14482	Oregon Ash	Fraxinus latifolia	39	75	35	Fair	Dominant	Mature	Fair	Yes	Yes	History of large limb failure.
14484	Oregon Ash		33	75	35	Fair	Dominant	Over-mature	Very Poor	Yes		12" limb cavity at 4' above ground on N side.
14486	Oregon Ash	Fraxinus latifolia	25	70	35	Fair	Co dominant	Over-mature	Very Poor	Yes	Yes	2 stems 22,12. 8"x24" cavity from ground on E side. Broken top. History of limb failure. Thin crown.
14488	Oregon Ash	Fraxinus latifolia	14	60	30	Very Poor	Below canopy	Over-mature	Very Poor	Yes	Yes	12" x 8' cavity from ground on N side.
14489	Oregon Ash	Fraxinus latifolia	18	65	35	Very Poor	Below canopy	Over-mature	Very Poor	Yes	Yes	Stem failure at 15' above ground.
14490	Oregon Ash	Fraxinus latifolia	25	25	20	Poor	Below canopy	Over-mature	Very Poor	Yes	Yes	Stem failures at 25' above ground.
14491	Oregon Ash	Fraxinus latifolia	29	80	40	Poor	Co dominant	Over-mature	Very Poor	Yes	Yes	4" x 24" cavity from ground on N side. 6" x 4' cavity at 40' above ground on S side.
14492	Oregon Ash	Fraxinus latifolia	19	70	35	Very Poor	Below canopy	Over-mature	Very Poor	Yes	Yes	24" x 8' cavity from ground on E. side.
14493	Oregon Ash	Fraxinus latifolia	28	70	40	Poor	Co dominant	Over-mature	Very Poor	Yes	Yes	3" x 16" cavity from ground on N side.
14493.1	Oregon Ash	Fraxinus latifolia	16	60	30	Very Poor	Co dominant	Over-mature	Very Poor	Yes	Yes	3" x 4.5' cavity from ground on S side. Highcrown.
14494	Oregon Ash	Fraxinus latifolia	19	70	35	Poor	Co dominant	Over-mature	Very Poor	Yes	Yes	2"x4" cavity at 2' above ground on N side.
14495	Oregon Ash	Fraxinus latifolia	20	75	4040	Poor	Co dominant	Over-mature	Very Poor	Yes	Yes	2" x 12" cavity from 1.5' above ground on E. side.
14496	Oregon Ash	Fraxinus latifolia	29	75	40	Poor	Co dominant	Over-mature	Very Poor	Yes	Yes	2 stems 23,17. 17" stem is hollow from ground'.
14498	Oregon Ash	Fraxinus latifolia	18	65	30	Very Poor	Co dominant	Over-mature	Very Poor	Yes	Yes	Cavities.
14507	Crabapple	Malus sp.	25	25	35	Fair	Below canopy	Mature	Fair	No	No	4 stems 7,7,5,6.
15470	Black Cottonwood	Populus trichocarpa	6	25	15	Good	Below Canopy	Young	Good	No	Yes	
15470.1	Willow	Salix sp.	7	20	20	Fair	Single tree	Mature	Fair	No	Yes	2 stems 4,5.
15476	Oregon White Oak	Quercus garryana	26	90	50	Good	Dominant	Mature	Good	Yes	Yes	
15476.1	Douglas Fir	Pseudotsuga menziesii	7	25	15	Good	Below Canopy	Young	Good	No	Yes	
15476.2	Douglas Fir	Pseudotsuga menziesii	6	25	15	Poor	Below Canopy	Young	Poor	No	Yes	Partial uproot.
15478	Oregon Ash	Fraxinus latifolia	28	85	50	Poor	Dominant	Over-mature	Very Poor	Yes	Yes	12" cavity at 50' above ground.
15478.1	Douglas Fir	Pseudotsuga menziesii	4	25	15	Good	Below Canopy	Young	Good	No	Yes	
15481	Black Cottonwood	Populus trichocarpa	12	35	20	Poor	Single Tree	Mature	Very Poor	Yes	Yes	Broken top at 30' above ground.
15482	Red Alder	Alnus rubra	16	60	30	Poor	Co-dominant	Mature	Poor	Yes	Yes	Broken top.
15483	Red Alder	Alnus rubra	12	40	20	Poor	Co-dominant	Mature	Poor		Broken top.	
15490	Western Red Cedar	Thuja plicata	24	30	15	Poor	Single Tree	Mature	Very Poor	Yes	Yes	Broken top at 30' above ground.
15491	Western Red Cedar	Thuja plicata	22	40	15	Poor	Single Tree	Mature	Very Poor	Yes	Yes	Broken top at 20' above ground.
15492	Western Red Cedar	Thuja plicata	12	35	15	Poor	Single Tree	Mature	Very Poor	Yes	Yes	Broken top at 20' above ground.
15502	Grand Fir	Abies grandis	37	40	20	Fair	Single Tree	Mature	Poor	Yes	Yes	Broken top.
15572	Bigleaf Maple	Acer macrophyllum	21	50	25	Poor	Co-dominant	Semi-mature	Poor	Yes	Yes	Broken top.
15573	Western Red Cedar	Thuja plicata	21	60	25	Good	Co-dominant	Semi-mature	Fair	Yes	Yes	
15573.1	Western Red Cedar	Thuja plicata	7	25	15	Fair	Below Canopy	Semi-mature	Fair	No	Yes	Corrected lean S.
15573.2	Western Red Cedar	Thuja plicata	20	20	15	Poor	Below Canopy	Semi-mature	Poor	Yes	Yes	Suppressed.
15574	Bigleaf Maple	Acer macrophyllum	17	50	25	Fair	Co-dominant	Semi-mature	Fair	Yes	Yes	
15576	Red Alder	Alnus rubra	18	60	30	Fair	Co-dominant	Mature	Fair	Yes	Yes	Bark inclusion in lower bole.
15577	Bigleaf Maple	Acer macrophyllum	8	35	20	Poor	Below Canopy	Semi-mature	Poor	No	Yes	Suppressed.
15581	Western Red Cedar	Thuja plicata	20	35	30	Very Poor	Below Canopy	Over-mature	Very Poor	Yes	Yes	Broken trunk is hollow.
15582	Oregon Ash	Fraxinus latifolia	15	80	45	Good	Dominant	Semi-mature	Good	Yes	Yes	
15583	Western Red Cedar	Thuja plicata	31	80	50	Good	Dominant	Mature	Good	Yes	Yes	
15584	Bigleaf Maple	Acer macrophyllum	23	90	60	Fair	Dominant	Mature	Fair	Yes	Yes	
15585	Oregon Ash	Fraxinus latifolia	24	80	45	Good	Dominant	Mature	Good	Yes	Yes	
15586	Black Cottonwood	Populus trichocarpa	5	30	10	Poor	Below Canopy	Young	Poor	No	Yes	Suppressed.
15587	Black Cottonwood	Populus trichocarpa	11	45	25	Fair	Co-dominant	Young	Fair	No	Yes	
15589	Oregon Ash	Fraxinus latifolia	7	45	20	Good	Co-dominant	Young	Good	No	Yes	
15589.1	Oregon Ash	Fraxinus latifolia	4	45	15	Fair	Co-dominant	Young	Good	No	Yes	
15589.2	Oregon Ash	Fraxinus latifolia	7	45	20	Good	Co-dominant	Young	Good	No	Yes	
15589.3	Oregon Ash	Fraxinus latifolia	9	50	25	Good	Co-dominant	Semi-mature	Good	No	Yes	
15591.1	Oregon Ash	Fraxinus latifolia	7	35	20	Fair	Co-dominant	Young	Fair	No	Yes	
15591.2	Bigleaf Maple	Acer macrophyllum	5	20	15	Poor	Below Canopy	Young	Poor	No	Yes	
15592	Black Cottonwood	Populus trichocarpa	11	40	25	Fair	Below Canopy	Young	Fair	No	Yes	
15593	Black Cottonwood	Populus trichocarpa	9	35	20	Fair	Co-dominant	Young	Fair	No	Yes	

1554.1 Biged Maps Ace macrophysics 6 25 15 Person Below Comp Torug Person Below Comp 1559 Weelen Below Philo Baccoma 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS		TREE HEALTH	REGULATED	GROVE	COMMENTS
1550. Western Bol Code They plant 100 800 72 Cond Densional Mature Far No. Yes Yes 1557. Western Bol Code They plant 6 35 15 Four Move Coney Yes Yes Yes Yes 1557. Western Bol Code They plant 6 2 5 15 Good Bove Casey Yes Yes Yes 15500 Western Bol Code They plant 6 2 5 15 Good Bove Casey Yes	15594	Bigleaf Maple	Acer macrophyllum	16	30	15	Very Poor	Below Canopy	Semi-mature	Very Poor	Yes	Yes	Broken top at 30' above ground.
150% Find Find <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Broken top.</td></th<>													Broken top.
1957. Western Red Colur They placta 6 75 15 Ford Beaks Caregy Yanga Good No. Yes 1958. Western Red Colur They placta 6 25 16 Good No. Yes 1950. Western Red Colur They placta 7 7 33 Good No. Yes 1950. Bale Magh Ar an company 7 70 33 Good No. Yes 1950. Bale Magh Ar an company 7 70 33 Good Dommant Seminature Good Yes Yes Decker top: Sever contes in nor top: No. 1950. Bale Magh Ar an company 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7													
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T3550 Weisen Red Code Thug private 27 60 40 Fair Co-dominant Mater Proc Yes Vers Effection 15400 Biglenf Magle Acer macrophyliem 38 50 55 Fair Dominant Description Vers													
156.6 Bigleaf Hagle Actor macrophylian 38 90 50 Fair Dominant Operative Ves Ves 24° x 36° cambra from ground on K side. 15607 Bigleaf Magle Actor macrophylian 71 Dead Over macrophylian 15 subset of the standard on the standard													
1550 Biglent Huge Actor starcephyllem 13 50 31 Very Proof Co-dominant Over mark Vers Field stem with cardy at 13" above grand. 1550 Ref Molt Altro staff 17 Co-dominant Mutry Proof Vers Vers Vers Vers Field stem with cardy at 13" above grand. 15510 Biglent Huge Actor material Mutry Proof Vers Vers Vers Field stem with cardy at 13" above grand. 15510 Biglent Huge Actor material Mutry 10 30 45 Good Deminant Mutry Proor Vers													· · ·
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Tisti2 Spruce Proce Proc Ves Proce Ves Ve					50	35		Co-dominant	Over-mature	Very Poor			Failed stem with cavity at 15' above ground.
1513 Biget Maple Acer macrophytiom 70 50 35 Fair Co-dominant Mature Poor Yes 1's 8' carly al 3'to 3'' above ground on W side. 15141 Biget Maple Acer macrophytiom 74 50 100 Fair Co-dominant Mature Poor No. Ves. Broken top. 15161 Biget Maple Acer macrophytiom 30 80 45 Good Co-dominant Mature Poor Ves. Ves. Wes Broken top. 1610 Workme Ed. Coder This Display 30 65 30 Coder Coder Ves. Supersod.													
1551.4 Biglest Magle Acer acceptightm 7 2.5 10 Fair Co-dominant Mature Peor No. Ves. Bitsen Might Migh Acer acceptightm 20 80 35.5 Bitglest Mighe Acer acceptightm 20 80 35.5 Bitsen Mature Cood Ves. Ves. Bitsen Mature Acer acceptightm 20 Acer acceptightm 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 21 20 20 21 20 20 21 20 20 21 20 20 21 20 20 21 20 20 <th21< th=""> 20</th21<>													
15515 Biglet Mugle Aper margehylum 24 50 35 Poor Co-dominant Mature Poor Ves Ves 15616 Biglet Mugle Accr margehylum 30 45 Good Dominant Mature Cood Ves Ves Ves 15610 Western Red Coder Thyle pitcata 18 55 30 Good Ves Ves Ves 15620 Biglet Mugle Accr margehylum 9 45 15 Poor Redox Canopy Mature Poor No Ves Suppressed. 15621 Biglet Mugle Accr margehylum 4 45 15 Poor Mature Poor No Ves Suppressed. 15621 Biglet Mugle Accr margehylum 4 25 0 7 Fair Co-dominant Mature Fair No Ves Ves <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>													
Tishle Utgladet Magle Acer marcyphylum 30 80 45 Good Dominant Mature Good Yes Yes 15618 Western Red Codu Thuja plicata 18 55 30 Good Borniant Mature Good Yes Yes Yes 15620 Bigladf Magle Acer marcyphylum 4 50 Dow Relew Cancey Mature Poor No Yes Suppressed 15620 Bigladf Magle Acer marcyphylum 6 45 15 Poor Relew Cancey Mature Poor No Yes Suppressed 156201 Bigladf Magle Acer marcyphylum 12 65 20 Fair Co-dominant Mature													· · ·
Tis518 Western Red Codar Thug plicata 42 60 40 Cood Dominant Mature Good Yes Yes 15509 Western Red Codar Thug plicata 18 55 30 Good Dominant Semi-transfer Yes Yes Yes 155201 Bigleal Magle Acor macrophyliam 6 45 15 Poor Below Canopy Mature Poor No Yes Yes 155201 Bigleal Magle Acor macrophyliam 12 50 20 Fair Co-dominant Mature Fair No Yes Yes Yes 156211 Bigleal Magle Acor macrophyliam 2 90 450 Fair Co-dominant Mature Fair No Yes Yes<													Broken top.
1561 Western Red Codar Thig plicata 18 55 30 Good Dominant Law Good Yes Yes Matching 15200 Biglead Magle Accr macrophyllem 6 45 15 Poor Below Canopy Mature Poor No Yes Suppressed. 15520 Biglead Magle Accr macrophyllem 12 55 30 Fair Co-dominant Mature Fair Yes Yes Yes Yes 15621 Biglead Magle Accr macrophyllem 4 25 16 Co-dominant Mature Fair No Yes													
155:00 Bigleaf Magle Acer macraphylum 9 4.5 2.0 Poor Below Cangoy Mature Poor No Yes Suppressed. 155:01. Bigleaf Magle Acer macraphylum 22 6.5 3.0 Fair Co-dominant Mature Fair Yes Yes Yes 156:21. Bigleaf Magle Acer macraphylum 0 50 2.0 Fair Co-dominant Mature Fair No Yes Yes Yes 156:21. Bigleaf Magle Acer macraphylum 0 50 Cod Co-dominant Mature Fair No Yes													
15201 Biglest Magle Accr macraphylum 6 45 15 Poor Below Tange Poor No Yes Suppressed. 15202 Biglest Magle Accr macraphylum 12 50 20 Fair Co-dominant Mature Fair Ves Yes 15221 Biglest Magle Accr macraphylum 4 25 10 Fair Co-dominant Mature Fair No Yes 15221 Biglest Magle Accr macraphylum 4 25 10 Fair Co-dominant Mature Fair No Yes 15623 Biglest Magle Accr macraphylum 22 80 45 Good Dominant Mature Fear Yes Yes Yes Yes Yes Hest Accr macraphylum 22 70 50 Good Dominant Mature Good Yes Yes Yes Kes Hest Accr macraphylum 22 70 50 Co-dominant Mature	15619		Thuja plicata	18			Good	Dominant	Semi-mature	Good	Yes	Yes	
Tisbo2 Bigleaf Magle Acer macrophylium 22 65 30 Fair Co-dominant Mature Fair Ves Ves Ves 15621 Bigleaf Magle Acer macrophylium 9 50 20 Fair Co-dominant Mature Fair No Yes 15621 Bigleaf Magle Acer macrophylium 4 25 10 Fair Co-dominant Mature Fair No Yes 15621 Bigleaf Magle Acer macrophylium 22 80 45 Fair Co-dominant Mature Fair Ves Yes Yes Ves Procentop Co-dominant Mature Vers Ves Brocentop	15620	Bigleaf Maple	Acer macrophyllum	9	45	20	Poor	Below Canopy	Mature	Poor	No	Yes	Suppressed.
115621 Bigleaf Maple Acer marcaphilum 12 500 20 Fair Co-dominant Mature Fair No Yes 115621.1 Bigleaf Maple Acer marcaphilum 4 25 10 Fair Co-dominant Mature Fair No Yes 115621 Cregon Ash Arrakinus kultolia 22 80 45 Fair Dominant Mature Fair No Yes Ves 115624 Bigleaf Maple Acer marcaphilum 22 80 45 God Dominant Mature God Yes Yes Ves Ves Ves Ves No Yes Yes No Yes Ves Ves Ves Ves Ves Ves Ves Ves Ves No Yes Ves Broken top. 16:27 Red Ader Atturs xubra 14 50 30 Fair Co-dominant Mature Yes Ves Broken top. 16:26 Red Ader At	15620.1	Bigleaf Maple	Acer macrophyllum	6	45	15	Poor	Below Canopy	Mature	Poor	No	Yes	Suppressed.
IS6211 Bigleaf Maple Acer macrophylum 9 50 20 Fair Co-dominant Mature Fair No Yes 156212 Bigleaf Maple Acer macrophylum 4 25 10 Fair Co-dominant Mature Fair No Yes 15623 Bigleaf Maple Acer macrophylum 22 70 50 Good Dominant Mature Good Yes Yes 15624 Bigleaf Maple Acer macrophylum 22 80 45 Good Oc-dominant Mature Very Poor Yes Yes Nes Nes <td< td=""><td>15620.2</td><td>Bigleaf Maple</td><td>Acer macrophyllum</td><td>22</td><td>65</td><td>30</td><td>Fair</td><td>Co-dominant</td><td>Mature</td><td>Fair</td><td>Yes</td><td>Yes</td><td></td></td<>	15620.2	Bigleaf Maple	Acer macrophyllum	22	65	30	Fair	Co-dominant	Mature	Fair	Yes	Yes	
IS621.2 Bigled Maple Acer macrophilum 4 25 10 Fair Co-dominant Mature Fair No Yes 15622 Oregon ASh Frainus attrohu 22 80 45 Fair Dominant Mature Foir Yes Yes Yes 15624 Bigleaf Maple Acer macrophilum 22 80 45 Good Dominant Mature Good Yes Yes Yes Nes 15624 Bigleaf Maple Acer macrophilum 14 30 20 Very Poor Co-dominant Mature Vers Yes Yes Nes 15627 Red Alder Alus rubra 14 50 30 Fair Co-dominant Mature Fair Vers Yes Yes Yes 15629 Willow Sair sg. 14 50 30 Fair Co-dominant Mature Fair Vers Yes Yes Hoten top. 156291 Bigleaf Maple Acer	15621	Bigleaf Maple	Acer macrophyllum	12	50	20	Fair	Co-dominant	Mature	Fair	Yes	Yes	
15622 Oregon Ash Frakino sulfidiu 22 80 45 Fair Ves Ves Ves 15624 Biglaaf Maple Accr macrophilum 22 70 50 Good Dominant Mature Good Yes Yes Yes 15625 Red Alder Altus rubra 18 30 20 Very Poor Co-dominant Mature Very Poor Yes Yes Broken top. 15626 Red Alder Altus rubra 18 30 20 Very Poor Co-dominant Mature Very Poor Yes Yes Broken top. 15627 Red Alder Altus rubra 8 20 10 Very Poor Co-dominant Mature Fair Ves Yes Yes Broken top. 16:00 16:00 Poor No Yes Broken top. 16:00 16:00 Poor No Yes Broken top. 16:00 Douglas Fir Pseudotsag mennesi 11 30 20 Good	15621.1	Bigleaf Maple	Acer macrophyllum	9	50	20	Fair	Co-dominant	Mature	Fair	No	Yes	
15623 Biglest Magle Acer macrophylum 22 70 50 Good Dominant Mature Good Yes Presentation 15624 Biglest Magle Acer macrophylum 22 80 445 Good Dominant Mature Very Poor Yes Yes Broken top. 15626 Bed Ader Atrus rubra 14 30 20 Very Poor Co-dominant Mature Very Poor Yes Pres Broken top. 15627 Red Ader Atrus rubra 14 50 30 Fair Co-dominant Mature Vers Yes Pres Broken top. 15629 Willow Sair sg. 14 50 30 Fair Co-dominant Mature Vers Yes Yes Broken top. Brok	15621.2	Bigleaf Maple	Acer macrophyllum	4	25	10	Fair	Co-dominant	Mature	Fair	No	Yes	
15624 Bigleal Maple Acer macrophyllum 22 80 45 Good Dominant Mature Vers Ves Ves Breck Adder 15625 Red Adder Allus rubra 18 30 20 Very Poor Co-dominant Mature Very Poor Yes Yes Breck Adder 15626 Red Adder Allus rubra 18 30 20 Very Poor Co-dominant Mature Very Poor Nes Yes Breck Adder 15627 Red Adder Allus rubra 8 20 10 Very Poor Below Canopy Semi-mature Very Poor No Yes Yes Brecken top. 15629 Willow Salk sp. 14 50 30 Fair Co-dominant Mature Very Poor No Yes Brecken top. 10 10 Very Poor Co-dominant Mature Very Poor Yes Broken top. 10 10 10 Very Poor Co-dominant Young Good	15622	Oregon Ash	Fraxinus latifolia	22	80	45	Fair	Dominant	Mature	Fair	Yes	Yes	
15625 Red Alder Alnus rubra 14 30 20 Very Poor Codominant Mature Very Poor Yes Broken top. 15626 Red Alder Alnus rubra 18 30 20 Very Poor Codominant Mature Very Poor Yes Yes Broken top. 15627 Red Alder Alnus rubra 8 20 10 Very Poor Co-dominant Mature Yes Yes Yes Broken top. 15629 Willow Salik sp. 14 50 30 Fair Co-dominant Mature Very Poor No. Yes Broken top. 15629 Willow Salik sp. 14 50 30 Fair Co-dominant Mature Very Poor No. Yes Broken top. Socken	15623	Bigleaf Maple	Acer macrophyllum	22	70	50	Good	Dominant	Mature	Good	Yes	Yes	
15626 Red Alder Alnus rubra 18 30 20 Very Poor Co-dominant Mature Very Poor Vers Vers Broken top. 15627 Red Alder Alnus rubra 8 20 10 Very Poor Below Canopy Semi-nature Very Poor No Yes Broken top. 15629 Willow Salk sp. 14 50 30 Fair Co-dominant Mature Yes Yes Vers 15629.1 Bigleaf Maple Aerracophyllum 21 45 20 Very Poor Co-dominant Mature Yery Poor Yes Vers Decession Social S	15624	Bigleaf Maple	Acer macrophyllum	22	80	45	Good	Dominant	Mature	Good	Yes	Yes	
Tb527 Red Alder Altus rubra 14 50 30 Fair Co-dominant Semi-mature Fair Yes Presson 15628 Red Alder Altus rubra 8 20 10 Very Poor Red Mare Yes Broken top. 15629 Willow Salix sp. 14 50 30 Fair Co-dominant Mature Very Poor No Yes Broken top. 15629 Willow Salix sp. 14 50 30 Fair Co-dominant Mature Very Poor No Yes Broken top. 15620 Douglas Fir Pseudotsuga menziesii 6 25 15 Good Co-dominant Young Good No Yes 105001 Douglas Fir Pseudotsuga menziesii 7 25 15 Good Co-dominant Young Good No Yes Semi-mature Sair Sair Sair Sair Sair Sair Sair Sair	15625	Red Alder	Alnus rubra	14	30	20	Very Poor	Co-dominant	Mature	Very Poor	Yes	Yes	Broken top.
Tis628 Red Alder Alrus rubra 8 20 10 Very Poor Semi-nature Very Poor No Yes Broken top. 15629 Willow Salix sp. 14 50 30 Fair Co-dominant Mature Fair Yes Yes Broken top. 15629.1 Bigleaf Maple Acer macrophyllum 21 45 20 Very Poor Co-dominant Mature Very Poor Yes Yes Broken top. 105000 Douglas Fir Pseudotsuga menziesil 6 25 15 Good Co-dominant Young Good No Yes 105001 Douglas Fir Pseudotsuga menziesil 6 25 15 Good Co-dominant Young Good No Yes Intermediate Seminor Yes Intermediate Yes Intermediate	15626	Red Alder	Alnus rubra	18	30	20	Very Poor	Co-dominant	Mature	Very Poor	Yes	Yes	Broken top.
15629 Willow Salk sp. 14 50 30 Fair Co-dominant Mature Fair Yes Yes 15629.1 Bigleaf Maple Accr macrophyllum 21 45 20 Very Poor Co-dominant Mature Very Poor Yes Yes Broken top. 105000 Douglas Fir Pseudotsuga menziesii 6 25 15 Good Co-dominant Young Good No Yes 105001 Douglas Fir Pseudotsuga menziesii 6 25 15 Good Co-dominant Young Good No Yes 105003 Douglas Fir Pseudotsuga menziesii 6 25 15 Good Co-dominant Young Good No Yes 105005 Douglas Fir Pseudotsuga menziesii 8 25 15 Good Co-dominant Young Good No Yes 105006 Red Osler Dogwood Corruns sericea 5 25	15627	Red Alder	Alnus rubra	14	50	30	Fair	Co-dominant	Semi-mature	Fair	Yes	Yes	
15629.1 Bigleaf Maple Acer macrophyllum 21 45 20 Very Poor Co-dominant Mature Very Poor Yes Yes Broken top. 105000 Douglas Fir Pseudotsuga menziesii 11 30 20 Good Co-dominant Young Good No Yes 105001 Douglas Fir Pseudotsuga menziesii 7 25 15 Good Co-dominant Young Good No Yes 105001 Douglas Fir Pseudotsuga menziesii 6 25 15 Good Co-dominant Young Good No Yes 105004 Douglas Fir Pseudotsuga menziesii 8 25 15 Good Co-dominant Young Good No Yes 105005 Douglas Fir Pseudotsuga menziesii 8 25 15 Good Co-dominant Young Good No Yes 105006 Red Osire Doyood Cortum sericea 5 20 25	15628	Red Alder	Alnus rubra	8	20	10	Very Poor	Below Canopy	Semi-mature	Very Poor	No	Yes	Broken top.
105000 Douglas Fir Pseudotsuga menziesii 11 30 20 Good Co-dominant Young Good No Yes 105001 Douglas Fir Pseudotsuga menziesii 6 25 15 Good Co-dominant Young Good No Yes 105002 Douglas Fir Pseudotsuga menziesii 7 25 15 Good Co-dominant Young Good No Yes 105003 Douglas Fir Pseudotsuga menziesii 6 25 15 Good Co-dominant Young Good No Yes 105005 Douglas Fir Pseudotsuga menziesii 8 25 15 Good Co-dominant Young Good No Yes 105006 Red Sier Dogwood Cornus serica 5 20 20 Good Co-dominant Young Good No Yes 105007 Douglas Fir Pseudotsuga menziesii 7 25 15 Good Co-dominan	15629	Willow	Salix sp.	14	50	30	Fair	Co-dominant	Mature	Fair	Yes	Yes	
105001 Douglas Fir Pseudotsuga menziesii 6 25 15 Good Co-dominant Young Good No Yes 105002 Douglas Fir Pseudotsuga menziesii 7 25 15 Good Co-dominant Young Good No Yes 105003 Douglas Fir Pseudotsuga menziesii 7 25 15 Good Co-dominant Young Good No Yes 105004 Douglas Fir Pseudotsuga menziesii 7 25 15 Good Co-dominant Young Good No Yes 105006 Douglas Fir Pseudotsuga menziesii 8 25 15 Good Co-dominant Young Good No Yes 105007 Douglas Fir Pseudotsuga menziesii 6 25 15 Good Co-dominant Young Good No Yes 105007 Douglas Fir Pseudotsuga menziesii 7 25 15 Good Co-domin	15629.1	Bigleaf Maple	Acer macrophyllum	21	45	20	Very Poor	Co-dominant	Mature	Very Poor	Yes	Yes	Broken top.
105002 Douglas Fir Pseudotsuga menziesii 7 25 15 Good Co-dominant Young Good No Yes 105003 Douglas Fir Pseudotsuga menziesii 6 25 15 Good Co-dominant Young Good No Yes 105004 Douglas Fir Pseudotsuga menziesii 8 25 15 Good Co-dominant Young Good No Yes 105006 Red Osier Dogwood Corrus sericea 5 20 20 Good Co-dominant Young Good No Yes 105006 Red Osier Dogwood Corrus sericea 5 20 20 Good Co-dominant Young Good No Yes 105007 Douglas Fir Pseudotsuga menziesii 6 25 15 Good Co-dominant Young Good No Yes 105008 Black Cottonwood Populus trichocarpa 7 25 15 Good Co-domi	105000	Douglas Fir	Pseudotsuga menziesii	11		20	Good	Co-dominant	Young	Good	No	Yes	
105003Douglas FirPseudotsuga menziesii62515GoodCo-dominantYoungGoodNoYes105004Douglas FirPseudotsuga menziesii72515GoodCo-dominantYoungGoodNoYes105005Douglas FirPseudotsuga menziesii82515GoodCo-dominantYoungGoodNoYes105006Red Osier DogwoodCornus sericea52020GoodCo-dominantYoungGoodNoYes105007Douglas FirPseudotsuga menziesii62515GoodCo-dominantYoungGoodNoYes105008Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105009Black CottonwoodPopulus trichocarpa72515GoodCo-dominantYoungGoodNoYes105010Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105011Douglas FirPseudotsuga menziesii72515GoodCo-dominantYoungGoodNoYes105012Black CottonwoodPopulus trichocarpa42515GoodCo-dominantYoungGoodNoYes105013Black CottonwoodPopulus trichocarpa32515GoodCo-dominant	105001	Douglas Fir	Pseudotsuga menziesii	6	25	15	Good	Co-dominant	Young	Good	No	Yes	
105004Douglas FirPseudotsuga menziesii72515GoodCo-dominantYoungGoodNoYes105005Douglas FirPseudotsuga menziesii82515GoodCo-dominantYoungGoodNoYes105006Red Osler DogwoodCorruns sericea52020GoodCo-dominantYoungGoodNoYes105007Douglas FirPseudotsuga menziesii62515GoodCo-dominantYoungGoodNoYes105008Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105009Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105010Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105012Black CottonwoodPopulus trichocarpa42515GoodCo-dominantYoungGoodNoYes105012Black CottonwoodPopulus trichocarpa92515GoodCo-dominantYoungGoodNoYes105013Black CottonwoodPopulus trichocarpa32515GoodCo-dominantYoungGoodNoYes105015WillowSalk sp.72020FairBelow CanopyYoung <td>105002</td> <td>Douglas Fir</td> <td>Pseudotsuga menziesii</td> <td>7</td> <td>25</td> <td>15</td> <td>Good</td> <td>Co-dominant</td> <td>Young</td> <td>Good</td> <td>No</td> <td>Yes</td> <td></td>	105002	Douglas Fir	Pseudotsuga menziesii	7	25	15	Good	Co-dominant	Young	Good	No	Yes	
105005Douglas FirPseudotsuga menziesii82515GoodCo-dominantYoungGoodNoYes105006Red Osier DogwoodCornus sericea52020GoodCo-dominantYoungGoodNoYes105007Douglas FirPseudotsuga menziesii62515GoodCo-dominantYoungGoodNoYes105008Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105009Black CottonwoodPopulus trichocarpa72515GoodCo-dominantYoungGoodNoYes105010Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105012Black CottonwoodPopulus trichocarpa42515GoodCo-dominantYoungGoodNoYes105013Black CottonwoodPopulus trichocarpa42515GoodCo-dominantYoungGoodNoYes105014Black CottonwoodPopulus trichocarpa32515GoodCo-dominantYoungGoodNoYes105015WillowSalix pp.72020FairBelow CanopyYoungGoodNoYes105016Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoung<	105003	Douglas Fir	Pseudotsuga menziesii	6	25	15	Good	Co-dominant	Young	Good	No	Yes	
105006Red Osier DogwoodCornus sericea52020GoodCo-dominantYoungGoodNoYes105007Douglas FirPseudolsuga menziesii62515GoodCo-dominantYoungGoodNoYes105008Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105009Black CottonwoodPopulus trichocarpa72515GoodCo-dominantYoungGoodNoYes105010Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105011Douglas FirPseudotsuga menziesii72515GoodCo-dominantYoungGoodNoYes105012Black CottonwoodPopulus trichocarpa42515GoodCo-dominantYoungGoodNoYes105013Black CottonwoodPopulus trichocarpa92515GoodCo-dominantYoungGoodNoYes105014Black CottonwoodPopulus trichocarpa32515GoodCo-dominantYoungGoodNoYes105015WillowSalik sp.72020FairBelow CanopyYoungFairNoYes105016Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoung<	105004	Douglas Fir	Pseudotsuga menziesii	7	25	15	Good	Co-dominant	Young	Good	No	Yes	
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105008Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105009Black CottonwoodPopulus trichocarpa72515GoodCo-dominantYoungGoodNoYes105010Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105011Douglas FirPseudostyga menziesii72515GoodCo-dominantYoungGoodNoYes105012Black CottonwoodPopulus trichocarpa42515GoodCo-dominantYoungGoodNoYes105013Black CottonwoodPopulus trichocarpa92515GoodCo-dominantYoungGoodNoYes105014Black CottonwoodPopulus trichocarpa32515GoodCo-dominantYoungGoodNoYes105015WillowSalix sp.72020FairBelow CanopyYoungGoodNoYes105016Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105017Western Red CedarThuja plicata72515GoodCo-dominantYoungGoodNoYes105018Bigleaf MapleAcer macrophyllum82515GoodCo-dominantYoung <td>105006</td> <td>Red Osier Dogwood</td> <td>Cornus sericea</td> <td>5</td> <td>20</td> <td>20</td> <td>Good</td> <td>Co-dominant</td> <td>Young</td> <td>Good</td> <td>No</td> <td>Yes</td> <td></td>	105006	Red Osier Dogwood	Cornus sericea	5	20	20	Good	Co-dominant	Young	Good	No	Yes	
105009Black CottonwoodPopulus trichocarpa72515GoodCo-dominantYoungGoodNoYes105010Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105011Douglas FirPseudotsuga menzlesii72515GoodCo-dominantYoungGoodNoYes105012Black CottonwoodPopulus trichocarpa42515GoodCo-dominantYoungGoodNoYes105013Black CottonwoodPopulus trichocarpa92515GoodCo-dominantYoungGoodNoYes105014Black CottonwoodPopulus trichocarpa32515GoodCo-dominantYoungGoodNoYes105015WillowSalix sp.72020FairBelow CanopyYoungFairNoYesStems 3,4,4.105016Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105017Western Red CedarThuja plicata72515GoodCo-dominantYoungGoodNoYes105018Bigleaf MapleAcer macrophyllum82515GoodCo-dominantYoungGoodNoYes105019Oregon AshFraxinus latifolia3270'35FairDominant	105007	Douglas Fir	Pseudotsuga menziesii				Good	Co-dominant	Young	Good	No	Yes	
105010Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105011Douglas FirPseudotsuga menzlesii72515GoodCo-dominantYoungGoodNoYes105012Black CottonwoodPopulus trichocarpa42515GoodCo-dominantYoungGoodNoYes105013Black CottonwoodPopulus trichocarpa92515GoodCo-dominantYoungGoodNoYes105014Black CottonwoodPopulus trichocarpa32515GoodCo-dominantYoungGoodNoYes105015WillowSalik sp.72020FairBelow CanopyYoungFairNoYesStems 3,4,4.105016Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105017Western Red CedarThuja plicata72515GoodCo-dominantYoungGoodNoYes105018Bigleaf MapleAcer macrophyllum82515GoodCo-dominantYoungGoodNoYes105019Oregon AshFraxinus latifolia3270'35FairDominantOver-maturePoorYesDecay in lower bole.105020Sweet CherryPrunus avium85030FairCo-	105008	Black Cottonwood	Populus trichocarpa	5		15	Good	Co-dominant	Young	Good	No	Yes	
105011Douglas FirPseudotsuga menziesii72515GoodCo-dominantYoungGoodNoYes105012Black CottonwoodPopulus trichocarpa42515GoodCo-dominantYoungGoodNoYes105013Black CottonwoodPopulus trichocarpa92515GoodCo-dominantYoungGoodNoYes105014Black CottonwoodPopulus trichocarpa32515GoodCo-dominantYoungGoodNoYes105015WillowSalix sp.72020FairBelow CanopyYoungFairNoYes105016Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105017Western Red CedarThuja plicata72515GoodCo-dominantYoungGoodNoYes105018Bigleaf MapleAccer macrophyllum82515GoodCo-dominantYoungGoodNoYes105020Sweet CherryPrunus avium85030FairCo-dominantSemi-matureFairNoYes105020	105009	Black Cottonwood	Populus trichocarpa	7	25	15	Good	Co-dominant	Young	Good	No	Yes	
105012Black CottonwoodPopulus trichocarpa42515GoodCo-dominantYoungGoodNoYesLost top.105013Black CottonwoodPopulus trichocarpa92515GoodCo-dominantYoungGoodNoYesLost top.105014Black CottonwoodPopulus trichocarpa32515GoodCo-dominantYoungGoodNoYes105015WillowSalix sp.72020FairBelow CanopyYoungFairNoYes105016Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105017Western Red CedarThuja plicata72515GoodCo-dominantYoungGoodNoYes105018Bigleaf MapleAcer macrophyllum82515GoodCo-dominantYoungGoodNoYes105020Sweet CherryPrunus avium85030FairCo-dominantSemi-matureFairNoYes105020	105010	Black Cottonwood	Populus trichocarpa	5	25	15	Good	Co-dominant	Young	Good	No	Yes	
105013Black CottonwoodPopulus trichocarpa92515GoodCo-dominantYoungGoodNoYesLost top.105014Black CottonwoodPopulus trichocarpa32515GoodCo-dominantYoungGoodNoYes105015WillowSalix sp.72020FairBelow CanopyYoungFairNoYes3 stems 3,4,4.105016Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105017Western Red CedarThuja plicata72515GoodCo-dominantYoungGoodNoYes105018Bigleaf MapleAccer macrophyllum82515GoodCo-dominantYoungGoodNoYes105019Oregon AshFraxinus latifolia3270'35FairDominantOver-maturePoorYesDecay in lower bole.105020Sweet CherryPrunus avium85030FairCo-dominantSemi-matureFairNoYes	105011		Pseudotsuga menziesii	7	25	15	Good	Co-dominant	Young	Good	No	Yes	
105014Black CottonwoodPopulus trichocarpa32515GoodCo-dominantYoungGoodNoYes105015WillowSalix sp.72020FairBelow CanopyYoungFairNoYes3 stems 3,4,4.105016Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105017Western Red CedarThuja plicata72515GoodCo-dominantYoungGoodNoYes105018Bigleaf MapleAcer macrophyllum82515GoodCo-dominantYoungGoodNoYes105019Oregon AshFraxinus latifolia3270'35FairDominantOver-maturePoorYesDecay in lower bole.105020Sweet CherryPrunus avium85030FairCo-dominantSemi-matureFairNoYes	105012	Black Cottonwood	Populus trichocarpa	4	25	15	Good	Co-dominant	Young	Good	No	Yes	
105015WillowSalix sp.72020FairBelow CanopyYoungFairNoYes3 stems 3,4,4.105016Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105017Western Red CedarThuja plicata72515GoodCo-dominantYoungGoodNoYes105018Bigleaf MapleAcer macrophyllum82515GoodCo-dominantYoungGoodNoYes105019Oregon AshFrairus latifolia3270'35FairDominantOver-maturePoorYesDecay in lower bole.105020Sweet CherryPrunus avium85030FairCo-dominantSemi-matureFairNoYes	105013	Black Cottonwood	Populus trichocarpa	9		15	Good	Co-dominant	Young	Good	No	Yes	Lost top.
105016Black CottonwoodPopulus trichocarpa52515GoodCo-dominantYoungGoodNoYes105017Western Red CedarThuja plicata72515GoodCo-dominantYoungGoodNoYes105018Bigleaf MapleAcer macrophyllum82515GoodCo-dominantYoungGoodNoYes105019Oregon AshFravinus latifolia3270'35FairDominantOver-maturePoorYesDecay in lower bole.105020Sweet CherryPrunus avium85030FairCo-dominantSemi-matureFairNoYes	105014	Black Cottonwood	Populus trichocarpa	3		15	Good	Co-dominant	Young	Good	No	Yes	
105017Western Red CedarThuja plicata72515GoodCo-dominantYoungGoodNoYes105018Bigleaf MapleAcer macrophyllum82515GoodCo-dominantYoungGoodNoYes105019Oregon AshFraxinus latifolia3270'35FairDominantOver-maturePoorYesYesDecay in lower bole.105020Sweet CherryPrunus avium85030FairCo-dominantSemi-matureFairNoYes									Young				3 stems 3,4,4.
105018Bigleaf MapleAcer macrophyllum82515GoodCo-dominantYoungGoodNoYes105019Oregon AshFraxinus latifolia3270'35FairDominantOver-maturePoorYesYesDecay in lower bole.105020Sweet CherryPrunus avium85030FairCo-dominantSemi-matureFairNoYes	105016		Populus trichocarpa	5		15	Good	Co-dominant	Young	Good	No	Yes	
105019Oregon AshFraxinus latifolia3270'35FairDominantOver-maturePoorYesYesDecay in lower bole.105020Sweet CherryPrunus avium85030FairCo-dominantSemi-matureFairNoYes	105017	Western Red Cedar	Thuja plicata	7	25	15	Good	Co-dominant	Young	Good	No	Yes	
105019Oregon AshFraxinus latifolia3270'35FairDominantOver-maturePoorYesYesDecay in lower bole.105020Sweet CherryPrunus avium85030FairCo-dominantSemi-matureFairNoYes	105018	Bigleaf Maple	Acer macrophyllum	8	25	15	Good	Co-dominant	Young	Good	No	Yes	
105020 Sweet Cherry Prunus avium 8 50 30 Fair Co-dominant Semi-mature Fair No Yes	105019	Oregon Ash		32	70'	35	Fair	Dominant	Over-mature	Poor	Yes	Yes	Decay in lower bole.
				8	50		Fair			Fair	No		
	105021	Sweet Cherry	Prunus avium	9				Co-dominant	Semi-mature				

100000 Design fu Amountable provided 2 2 5 6 Feat Condential Yes Carled with using press. 10001 Design fu Amountable press 1 3 3 0 Wey Yes	NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS		TREE HEALTH	REGULATED	GROVE	COMMENTS
1952/2 Origin II Taking attribution 12 3 2 Very IVor Pres Yes Yes 37 is 2 centry fragmant with site 1900/1 Disgen II Accounty attribution South attribution South attribution Transfer attribution Transfer attribution 1900/1 Disgen III Accounty fragmant South attribution Transfer attribution Transfer attribution Transfer attribution 1900/1 Bick Control III Transfer attribution South attribution Transfer attribution Transfer attribution Transfer attribution 1900/1 Bick Control IIII Transfer attribution South attribution South attribution Transfer attribution Transfer attribution Transfer attribution 1900/1 Bick Control IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	105022	Douglas Fir	Pseudotsuga menziesii	4	20	10	Fair	Below Canopy	Young	Poor	No	Yes	Girdled with staking wires.
UBD/D Design File Proceedings of Processor Proce New Years Proce New New		Douglas Fir							Young			Yes	
UDDD Daugis Fit Poolstrugt nervices 5 9 10 Fat Returney Yrang Poor Not Ves Coll Database Description 10020 Dergin AM Factor Mark Alle and Mark A 2.8 13 Code Code Not 2.8 15 Alle 2.8 15 Code Code Not Yes Ves Ves </td <td></td> <td></td> <td>Fraxinus latifolia</td> <td>12</td> <td></td> <td>20</td> <td>Very Poor</td> <td>Below Canopy</td> <td>Over-mature</td> <td>Very Poor</td> <td>Yes</td> <td>Yes</td> <td>18" x 12' cavity from ground on W side.</td>			Fraxinus latifolia	12		20	Very Poor	Below Canopy	Over-mature	Very Poor	Yes	Yes	18" x 12' cavity from ground on W side.
10502 Organ Abs Traine Mellow 20 75 30 Fair Derivative Over Table Vers Vers Vers Vers Sectors 12.6 Sector	105025	Douglas Fir	Pseudotsuga menziesii	3			Poor	Below Canopy	Young	Poor	No	Yes	
Ubbge Western Red Gatar Thing plotatin 8 80 15 Good Cood Non Yes 100520 Bible Continued Plotatin End Gatar A 2.0 15 Good Good No Yes 100500 Bible Continued Plotatin End Gatar Plotatin End Gatar No Yes 100501 Western Red Gatar Plotatin End Gatar Plotatin End Gatar Plotatin End Gatar No Yes 100503 Western Red Gatar Plotatin End Gatar	105026	Douglas Fir	Pseudotsuga menziesii	5			Fair	Below Canopy	Young	Poor	No	Yes	Girdled with staking wires.
Type Weism Red Colar Their place 4 25 15 Good Good Non Yes 105300 Bisk Colarmood Their Processor Bisk Colarmood Non Yes 105301 Weism Rol Colar Their Processor Bisk Colarmood Non Yes 105301 Weism Rol Colar Their Processor Bisk Colarmood Non Yes 105303 Weism Rol Colar Their Processor Bisk Colarmood Non Yes 105304 Weism Rol Colar Their Processor Non Yes Non Yes 105304 Weism Rol Colar Their Processor Non Yes Non Yes 105304 Weism Rol Colar Their Processor Bis Colar Colarmont Yes Non Yes 105304 Weism Rol Colar Their Processor Bis Colar Colarmont Yes Non Yes 105304 Weism Rol Colar Their Processor Colarmont Yes Non Yes Non Yes </td <td>105027</td> <td>Oregon Ash</td> <td>Fraxinus latifolia</td> <td>20</td> <td></td> <td></td> <td>Fair</td> <td>Dominant</td> <td>Over-mature</td> <td>Very Poor</td> <td>Yes</td> <td>Yes</td> <td>2 stems 12,16. 15" x 24" cavity from ground on W. side.</td>	105027	Oregon Ash	Fraxinus latifolia	20			Fair	Dominant	Over-mature	Very Poor	Yes	Yes	2 stems 12,16. 15" x 24" cavity from ground on W. side.
19300 Bail Cottemword Psyche Enhances 4 20 15 Good Columnate Yourg Good No Yes 195301 Weisern Rod Ceder Thale pleate 7 25 15 Good Columnate Yourg Good No Yes 195301 Weisern Rod Ceder Thale pleate 7 25 15 Good Columnate Yourg Good No Yes 190301 Weisern Rod Ceder Thale pleate 4 27 15 Good Columnate Yourg Cood No Yes 190301 Weisern Rod Ceder Thale pleate 7 25 15 Good Co-ummate Yeurg Good No Yes 190305 Weisern Rod Ceder Thale pleate 7 25 16 Good Co-ummate Yeurg Good No Yes 190305 Weisern Rod Ceder Thale pleate 7 25 16 Good Co-ummate Yeurg	105028	Western Red Cedar	Thuja plicata	8		15	Good	Co-dominant	Young	Good	No	Yes	
195031 Western Red Codar Thulg placial 8 25 15 Good Co-dominant Young Cood No Yes 100303 Mestern Red Codar Thulg placial 7 25 15 Good Co-dominant Young Cood No Yes 100333 Western Red Codar Thulg placial 7 25 15 Good Co-dominant Young Cood No Yes 105333 Western Red Codar Thulg placial 6 25 15 Good Co-dominant Young Cood No Yes 105335 Western Red Codar Thulg placial 6 25 15 Good Co-dominant Young Cood No Yes 105335 Western Red Codar Thulg placial 8 25 15 Good Co-dominant Young Cood No Yes 105337 Western Red Codar Thulg placial 7 25 15 Good Co-dominant	105029	Western Red Cedar	Thuja plicata	4	25	15	Good	Co-dominant	Young	Good	No	Yes	
10531 Western Red coder Thulg plotat 7 25 15 Good Coder down No Yes 10532 Dougla Fir Productions model 7 25 15 Good Coder No Yes 10532 Mustern Red coder Thulg plotat 7 25 15 Good Coder No Yes 10533 Mustern Red coder Thulg plotat 6 2 15 Good Coder No Yes 10534 Western Red coder Thulg plotat 6 2 15 Good Co-dominant Young Good No Yes 10535 Western Red coder Thulg plotat 7 2 15 Good Co-dominant Young Good No Yes 10536 Western Red coder Thulg plotat 9 2 15 Good Co-dominant Young Cood No Yes 10540 Western Red coder Thulg plotat 9	105030	Black Cottonwood	Populus trichocarpa	4			Good	Co-dominant	Young	Good		Yes	
10032 Double IP Pseudinger method 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7 25 15 6 6 6 6 7 25 15 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	105030.1	Western Red Cedar	Thuja plicata				Good	Co-dominant	Young	Good	No	Yes	
100031 Western Rot Codar Thug platan 7 25 15 Good Co-dominant Yuang Cood No Yes 105031 Western Rot Codar Thug platan 7 25 15 Good Co-dominant Yuang Cood No Yes 105031 Western Rot Codar Thug platan 7 25 15 Good Co-dominant Yuang Cood No Yes 105035 Western Rot Codar Thug platan 7 25 15 Good Co-dominant Yuang Cood No Yes 105030 Western Rot Codar Thug platan 0 25 15 Good Co-dominant Yuang Cood No Yes 105040 Western Rot Codar Thug platan 0 25 15 Good Co-dominant Yuang Cood No Yes 105040 Western Rot Codar Thug platan 7 20 15 Rood Co-dominant Yuang </td <td>105031</td> <td>Western Red Cedar</td> <td>Thuja plicata</td> <td>7</td> <td>25</td> <td>15</td> <td>Good</td> <td>Co-dominant</td> <td>Young</td> <td>Good</td> <td>No</td> <td>Yes</td> <td></td>	105031	Western Red Cedar	Thuja plicata	7	25	15	Good	Co-dominant	Young	Good	No	Yes	
1050.41 Western Red Codar Thug place 4 25 15 Good Co-dominant Yuang Good No Yes 10503.41 Western Red Codar Thug place 7 25 15 Good Co-dominant Yuang Good No Yes 100035 Western Red Codar Thug place 7 25 15 Good Co-dominant Yuang Good No Yes 100037 Western Red Codar Thug place 7 25 15 Good Co-dominant Yuang Good No Yes 100040 Western Red Codar Thug place 8 25 15 Good Co-dominant Yuang Good No Yes 105041 Western Red Codar Thug place 7 20 15 Poor Co-dominant Yuang Good No Yes 105041 Western Red Codar Thug place 6 25 15 Good Co-dominant Yuang	105032	Douglas Fir	Pseudotsuga menziesii	6	25	15	Good	Co-dominant	Young	Good	No	Yes	
10503.11 Western Red Coder Thuja picta 7 2 15 Good Co-dominant Young Good No Yes 10503.51 Western Red Coder Thuja picta 7 25 15 Good Co-dominant Young Good No Yes 10503.51 Western Red Coder Thuja picta 7 25 15 Good Co-dominant Young Good No Yes 10503.71 Western Red Coder Thuja picta 7 25 15 Good Co-dominant Young Good No Yes 10504.01 Western Red Coder Thuja picta 7 25 15 Good Co-dominant Young Good No Yes Lead top. 10504.81 Western Red Coder Thuja picta 7 25 15 Good Co-dominant Young Good No Yes Lead top. 10504.41 Western Red Coder Thuja picta 7 25 15	105033	Western Red Cedar	Thuja plicata	7	25	15	Good	Co-dominant	Young	Good	No	Yes	
10535 Western Red Codar Thug julicity 6 25 15 Good Co-dominant Young Good No. Yes 105351 Western Red Codar Thug julicity 7 25 15 Good Co-dominant Young Good No. Yes 105331 Western Red Codar Thug julicity 8 25 15 Good Co-dominant Young Good No. Yes 105030 Western Red Codar Thug julicity 6 25 15 Good Co-dominant Young Good No. Yes 105041 Western Red Codar Thug julicity 9 25 15 Good Co-dominant Young Good No. Yes Leastrop No.	105034	Western Red Cedar	Thuja plicata	4	25	15	Good	Co-dominant	Young	Good	No	Yes	
105036 Western Red Codar Thug piketa 7 25 15 Good Co-dominant Young Good No Yes 105037 Western Red Codar Thug piketa 8 25 15 Good Co-dominant Young Good No Yes 105038 Western Red Codar Thug piketa 6 25 15 Good Co-dominant Young Good No Yes 105040 Western Red Codar Thug piketa 0 25 15 Good Co-dominant Young Good No Yes 105041 Western Red Codar Thug piketa 0 25 15 Good Co-dominant Young Good No Yes Dead top Dead to	105034.1	Western Red Cedar	Thuja plicata	7	25	15	Good	Co-dominant	Young	Good	No	Yes	
105071 Western Red Codar Thuja plactat 7 25 15 Good Co-dominant Young Good No Yes 105038 Western Red Codar Thuja plactat 6 25 15 Good Co-dominant Young Good No Yes 105040 Western Red Codar Thuja plactat 0 25 15 Good Co-dominant Young Good No Yes 105041 Western Red Codar Thuja plactat 0 25 15 Good Co-dominant Young Food No Yes Deal top. 105041 Western Red Codar Thuja plactat 0 25 15 Good Co-dominant Young Food No Yes Deal top. 105044 Western Red Codar Thuja plactat 7 20 15 Poor Co-dominant Young Poor No Yes Deal top. 105044 Western Red Codar Thuja plactat 9 25<	105035	Western Red Cedar	Thuja plicata	6	25	15	Good	Co-dominant	Young	Good	No	Yes	
105038 Western Red Codar Thuja pikuta 8 25 15 Good Co-dominant Young Good No Yes 105039 Western Red Codar Thuja pikuta 9 25 15 Good Co-dominant Young Good No Yes 105041 Western Red Codar Thuja pikuta 7 20 15 Food Co-dominant Young Good No Yes 105041 Western Red Codar Thuja pikuta 7 20 15 Food Co-dominant Young Good No Yes Pear No Yes Pear <td>105036</td> <td>Western Red Cedar</td> <td>Thuja plicata</td> <td>7</td> <td>25</td> <td>15</td> <td>Good</td> <td>Co-dominant</td> <td>Young</td> <td>Good</td> <td>No</td> <td>Yes</td> <td></td>	105036	Western Red Cedar	Thuja plicata	7	25	15	Good	Co-dominant	Young	Good	No	Yes	
19539 Western Red Codar Thug Japitata 6 25 15 Good Co-adminant Young Good No Yes 1105040 Western Red Codar Thug Japitata 9 25 15 Good Co-adminant Young Good No Yes 1105041 Western Red Codar Thug Japitata 9 25 15 Good Co-adminant Young Good No Yes 1105041 Western Red Codar Thug Japitata 9 25 15 Good Co-adminant Young Good No Yes Zetern X-5. 1105044 Western Red Codar Thug Japitata 7 20 15 Poor Co-adminant Young Food No Yes Dead top. 1105044 Western Red Codar Thug Japitata 7 20 15 Poor Co-adminant Young Food No Yes Dead top. 1105048 Western Red Codar Thug Japitata 9	105037	Western Red Cedar	Thuja plicata	7	25	15	Good	Co-dominant	Young	Good	No	Yes	
105040 Western Red Codar Thijk plicata 9 25 15 Good No Yes 105041 Western Red Codar Thijk plicata 7 20 15 Poor Co-dominant Young Good No Yes 105042 Western Red Codar Thijk plicata 6 25 15 Good Co-dominant Young Good No Yes Dead top. 105044 Western Red Codar Thijk plicata 6 25 15 Good Co-dominant Young Good No Yes Dead top. 105046 Western Red Codar Thijk plicata 7 20 15 Poor Co-dominant Young Poor No Yes Dead top. 105047 Western Red Codar Thijk plicata 8 20 15 Poor Co-dominant Young Poor No Yes Dead top. 105040 Western Red Codar Thijk plicata 8 25 15 Codo	105038	Western Red Cedar	Thuja plicata	8	25	15	Good	Co-dominant	Young	Good	No	Yes	
105041 Western Red Codar Thuja platat 9 25 15 Good No Yes 105042 Western Red Codar Thuja platat 9 25 15 Good No Yes Dead top. 105043 Western Red Codar Thuja platat 9 25 15 Good No Yes Dead top. 105044 Western Red Codar Thuja platat 7 20 15 Poor Co-dominant Young Poor No Yes Dead top. 105044 Western Red Codar Thuja platat 7 20 15 Poor Co-dominant Young Poor No Yes Dead top. 105044 Western Red Codar Thuja platat 7 25 15 Good Co-dominant Young Good No Yes 2 sterns 7.5. 105050 Western Red Codar Thuja platat 7 25 15 Good No Yes 2 sterns 7.5. 105050 <	105039	Western Red Cedar	Thuja plicata	6	25	15	Good	Co-dominant	Young	Good	No	Yes	
105024 Western Red Cedar Thulp plicital 7 20 15 Poor Co-dominant Young Good No Yes Dead top. 105044 Western Red Cedar Thulp plicital 6 25 15 Good Co-dominant Young Good No Yes Dead top. 105045 Western Red Cedar Thulp plicital 7 20 15 Poor Co-dominant Young Poor No Yes Dead top. 105046 Western Red Cedar Thulp plicital 7 20 15 Poor Co-dominant Young Poor No Yes Dead top. 105040 Western Red Cedar Thulp plicita 8 20 15 Poor Co-dominant Young Poor No Yes Dead top. 105050 Western Red Cedar Thulp plicita 9 25 15 Cood Co-dominant Young Cood No Yes Thulp plicita 8 25 15<	105040	Western Red Cedar	Thuja plicata	9	25	15	Good	Co-dominant	Young	Good	No	Yes	
105034 Western Red Cedar Thuja pikata 9 25 15 Good Co-dminant Young Good No Yes Pacet np. 105044 Western Red Cedar Thuja pikata 7 20 15 Poor Co-dminant Young Poor No Yes Dead top. 105044 Western Red Cedar Thuja pikata 7 20 15 Poor Co-dminant Young Poor No Yes Dead top. 105044 Western Red Cedar Thuja pikata 8 20 15 Poor Co-dminant Young Foor No Yes Dead top. 105049 Western Red Cedar Thuja pikata 9 25 15 Good Co-dminant Young Food No Yes Dead top. 105050 Western Red Cedar Thuja pikata 7 25 15 Good Co-dminant Young Good No Yes Dead top. 105050 Western Red Cedar </td <td>105041</td> <td>Western Red Cedar</td> <td>Thuja plicata</td> <td>9</td> <td>25</td> <td>15</td> <td>Good</td> <td>Co-dominant</td> <td>Young</td> <td>Good</td> <td>No</td> <td>Yes</td> <td></td>	105041	Western Red Cedar	Thuja plicata	9	25	15	Good	Co-dominant	Young	Good	No	Yes	
105044 Western Red Cedar Thuig plicatn 6 25 15 Good Co-dominant Young Good No Yes Lead top. 105045 Western Red Cedar Thuig plicatn 7 20 15 Poor Co-dominant Young Poor No Yes Dead top. 105044 Western Red Cedar Thuig plicatn 8 20 15 Poor Co-dominant Young Poor No Yes Dead top. 105044 Western Red Cedar Thuig plicatn 9 25 15 Cood Co-dominant Young Poor No Yes Dead top. 105050 Western Red Cedar Thuig plicatn 7 25 15 Cood Co-dominant Young Good No Yes Dead top. Dead	105042	Western Red Cedar	Thuja plicata	7	20	15	Poor	Co-dominant	Young	Poor	No	Yes	Dead top.
105045 Western Red Cedar Thuja pikata 7 20 15 Poor Co-dominant Young Poor No Yes Dead top. 105046 Western Red Cedar Thuja pikata 7 20 15 Poor Co-dominant Young Poor No Yes Dead top. 105048 Western Red Cedar Thuja pikata 9 25 15 Good Co-dominant Young Good No Yes Dead top. 105049 Western Red Cedar Thuja pikata 7 25 15 Good Co-dominant Young Good No Yes 2 terms 7.5 105051 Western Red Cedar Thuja pikata 7 25 15 Good Co-dominant Young Good No Yes 1 this cown. 105052 Western Red Cedar Thuja pikata 8 25 15 Good Co-dominant Young Good No Yes 2 sterns 5.6 105055 Weste	105043	Western Red Cedar	Thuja plicata	9	25	15	Good	Co-dominant	Young	Good	No	Yes	2 stems 7,5.
105046 Western Red Cedar Thuja pilcata 7 20 15 Poor Co-dominant Young Poor No Yes Dead top. 105047 Western Red Cedar Thuja pilcata 8 20 15 Poor Co-dominant Young Poor No Yes Dead top. 105049 Western Red Cedar Thuja pilcata 9 25 15 Good Co-dominant Young Good No Yes Dead top. 105050 Western Red Cedar Thuja pilcata 7 25 15 Good Co-dominant Young Good No Yes Thin crown. 105051 Western Red Cedar Thuja pilcata 8 25 15 Good Co-dominant Young Good No Yes 2 sterns 5,6 105054 Western Red Cedar Thuja pilcata 7 25 15 Good Co-dominant Young Good No Yes 2 sterns 5,6 105055 <td< td=""><td>105044</td><td>Western Red Cedar</td><td>Thuja plicata</td><td>6</td><td>25</td><td>15</td><td>Good</td><td>Co-dominant</td><td>Young</td><td>Good</td><td>No</td><td>Yes</td><td></td></td<>	105044	Western Red Cedar	Thuja plicata	6	25	15	Good	Co-dominant	Young	Good	No	Yes	
195046 Western Red Cedar Thuja plicata 7 20 15 Poor Co-dominant Young Poor No Yes Dead top. 105047 Western Red Cedar Thuja plicata 8 20 15 Poor Co-dominant Young Poor No Yes Dead top. 105040 Western Red Cedar Thuja plicata 9 25 15 Good Co-dominant Young Good No Yes Dead top. 105051 Western Red Cedar Thuja plicata 7 25 15 Good Co-dominant Young Food No Yes 105052 Western Red Cedar Thuja plicata 7 25 15 Good Co-dominant Young Good No Yes Zeterns 5.6. 105054 Western Red Cedar Thuja plicata 7 25 15 Good Co-dominant Young Good No Yes Zeterns 5.6. 105055 Common Hawthorn	105045	Western Red Cedar	Thuja plicata	7	20	15	Poor	Co-dominant	Young	Poor	No	Yes	Dead top.
105048 Western Red Cedar Thuja pleata 8 20 15 Poor Co-dominant Young Poor No Yes Dead top. 105049 Western Red Cedar Thuja pleata 9 25 15 Good Co-dominant Young Good No Yes 2 stems 7.5. 105051 Western Red Cedar Thuja pleata 7 25 15 Good Co-dominant Young Good No Yes Thin crown. 105052 Western Red Cedar Thuja pleata 8 25 15 Good Co-dominant Young Good No Yes 2 stems 5.6. 105054 Western Red Cedar Thuja pleata 8 25 15 Good Co-dominant Young Good No Yes 2 stems 4.7. 105055 Common Hawthorn Crategus managana 8 25 15 Good Co-dominant Matre Fair No Yes 105056 Western Red Cedar Thuja plea	105046		Thuja plicata	7	20	15	Poor	Co-dominant	Young	Poor	No	Yes	Dead top.
105049 Western Red Cedar Thuja pikata 9 25 15 Good Co-dominant Young Good No Yes 105050 Western Red Cedar Thuja pikata 7 25 15 Good Co-dominant Young Good No Yes 105051 Western Red Cedar Thuja pikata 7 25 15 Good Co-dominant Young Good No Yes 105053 Western Red Cedar Thuja pikata 8 25 15 Good Co-dominant Young Good No Yes 2 stems 5.6. 105054 Western Red Cedar Thuja pikata 8 25 15 Good Co-dominant Young Good No Yes 2 stems 5.6. 105055 Common Hawthorn Crataegus manogyma 8 25 15 Good Co-dominant Mature Fair No Yes 105057 Common Hawthorn Crataegus manogyma 5 20 10	105047	Western Red Cedar	Thuja plicata	7	20	15	Poor	Co-dominant	Young	Poor	No	Yes	Dead top.
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105051 Western Red Cedar Thuig plicata 7 25 15 Poor Co-dominant Young Poor No Yes Thin crown. 105052 Western Red Cedar Thuig plicata 8 25 15 Good Co-dominant Young Good No Yes 2 stems 5,6. 105053 Western Red Cedar Thuig plicata 8 25 15 Good Co-dominant Young Good No Yes 2 stems 4,7. 105055 Western Red Cedar Thuig plicata 7 2.5 15 Good Co-dominant Young Good No Yes 105056 Common Hawthorn Crategus monogyna 8 2.5 15 Good Co-dominant Mature Fair No Yes 105057 Western Red Cedar Thuig plicata 9 2.5 15 Good Co-dominant Young Good No Yes 105058 Western Red Cedar Thu	105049	Western Red Cedar	Thuja plicata	9	25	15	Good	Co-dominant	Young	Good	No	Yes	2 stems 7,5.
105052 Western Red Cedar Thuja plicata 7 25 15 Good Co-dominant Young Good No Yes	105050	Western Red Cedar	Thuja plicata	9	25	15	Good	Co-dominant	Young	Good	No	Yes	
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105074 Western Red Cedar Thuja plicata 6 25 15 Good Below Canopy Young Good No Yes 105075 Western Red Cedar Thuja plicata 6 25 15 Good Below Canopy Young Good No Yes 105076 Western Red Cedar Thuja plicata 8 25 15 Good Below Canopy Young Good No Yes 105076 Western Red Cedar Thuja plicata 8 25 15 Good Below Canopy Young Good No Yes 2 stems 7,3.	105073	Western Red Cedar		6	25	15	Good	Below Canopy	Young	Good	No	Yes	
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105076 Western Red Cedar Thuja plicata 8 25 15 Good Below Canopy Young Good No Yes 2 stems 7,3.	105075	Western Red Cedar		6		15	Good	Below Canopy	Young	Good	No	Yes	
	105076			8	25	15				Good	No	Yes	2 stems 7,3.
	105077	Western Red Cedar	Thuja plicata	7	25	15	Good	Below Canopy	Young	Good	No	Yes	3 stems 5,3,3.

NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS	AGE CLASS	TREE HEALTH	REGULATED	GROVE	COMMENTS
105078	Western Red Cedar	Thuja plicata	8	25	15	Good	Below Canopy	Young	Good	No	Yes	
105079	Western Red Cedar	Thuja plicata	7	25	15	Poor	Below Canopy	Young	Poor	No	Yes	Thin crown.
105080	Western Red Cedar	Thuja plicata	7	25	15	Good	Below Canopy	Young	Good	No	Yes	
105081	Western Red Cedar	Thuja plicata	6	25	15	Good	Below Canopy	Young	Good	No	Yes	
105082	Oregon Ash	Fraxinus latifolia	18	70	30	Poor	Co-dominant	Over-mature	Very Poor	Yes	Yes	6" x 10' cavity on W. side.
105085	Western Red Cedar	Thuja plicata	9	25	15	Good	Below Canopy	Young	Good	No	Yes	
105086	Willow	Salix sp.	9	30	30	Fair	Below Canopy	Semi-mature	Fair	No	Yes	
105087	Red Alder	Alnus rubra	6	25	15	Good	Below Canopy	Young	Good	No	Yes	
105088	Red Alder	Alnus rubra	6	25	15	Good	Below Canopy	Young	Good	No	Yes	
105089	Red Alder	Alnus rubra	5	25	15	Good	Below Canopy	Young	Good	No	Yes	
105090	Red Alder	Alnus rubra	4	25	15	Good	Below Canopy	Young	Good	No	Yes	
105091	Red Alder	Alnus rubra	7	25	15	Good	Below Canopy	Young	Good	No	Yes	
105092	Douglas Fir	Pseudotsuga menziesii	5	20	10	Poor	Below Canopy	Young	Poor	No	Yes	
105093	Douglas Fir	Pseudotsuga menziesii	8	25	15	Good	Below Canopy	Young	Good	No	Yes	
105094	Douglas Fir	Pseudotsuga menziesii	8	25	15	Good	Below Canopy	Young	Good	No	Yes	
105095	Douglas Fir	Pseudotsuga menziesii	7	25	15	Good	Below Canopy	Young	Good	No	Yes	
105096	Western Red Cedar	Thuja plicata	15	40	25	Good	Below Canopy	Young	Good	Yes	Yes	
105097	Western Red Cedar	Thuja plicata	8	25	15	Good	Below Canopy	Young	Good	No	Yes	
105098	Western Red Cedar	Thuja plicata	15	40	25	Good	Below Canopy	Young	Good	Yes	Yes	
105098.1	Red Alder	Alnus rubra	4	25	15	Poor	Below Canopy	Young	Poor	No	Yes	
105098.2	Western Red Cedar	Thuja plicata	4	25	15	Poor	Below Canopy	Young	Poor	No	Yes	



380 A AVENUE

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LAKE OSWEGO, OR 97034

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PHONE: 503-635-0270

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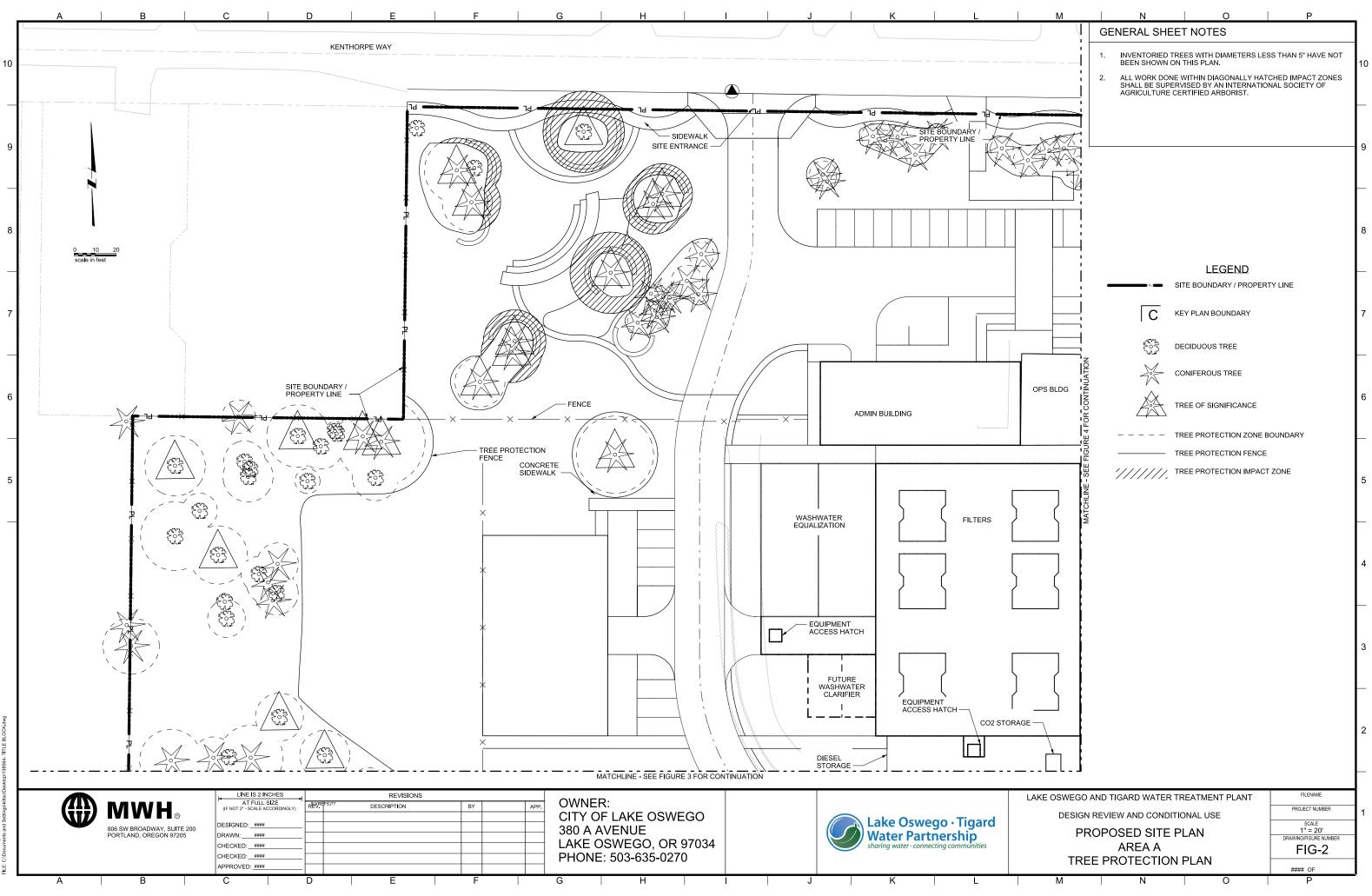
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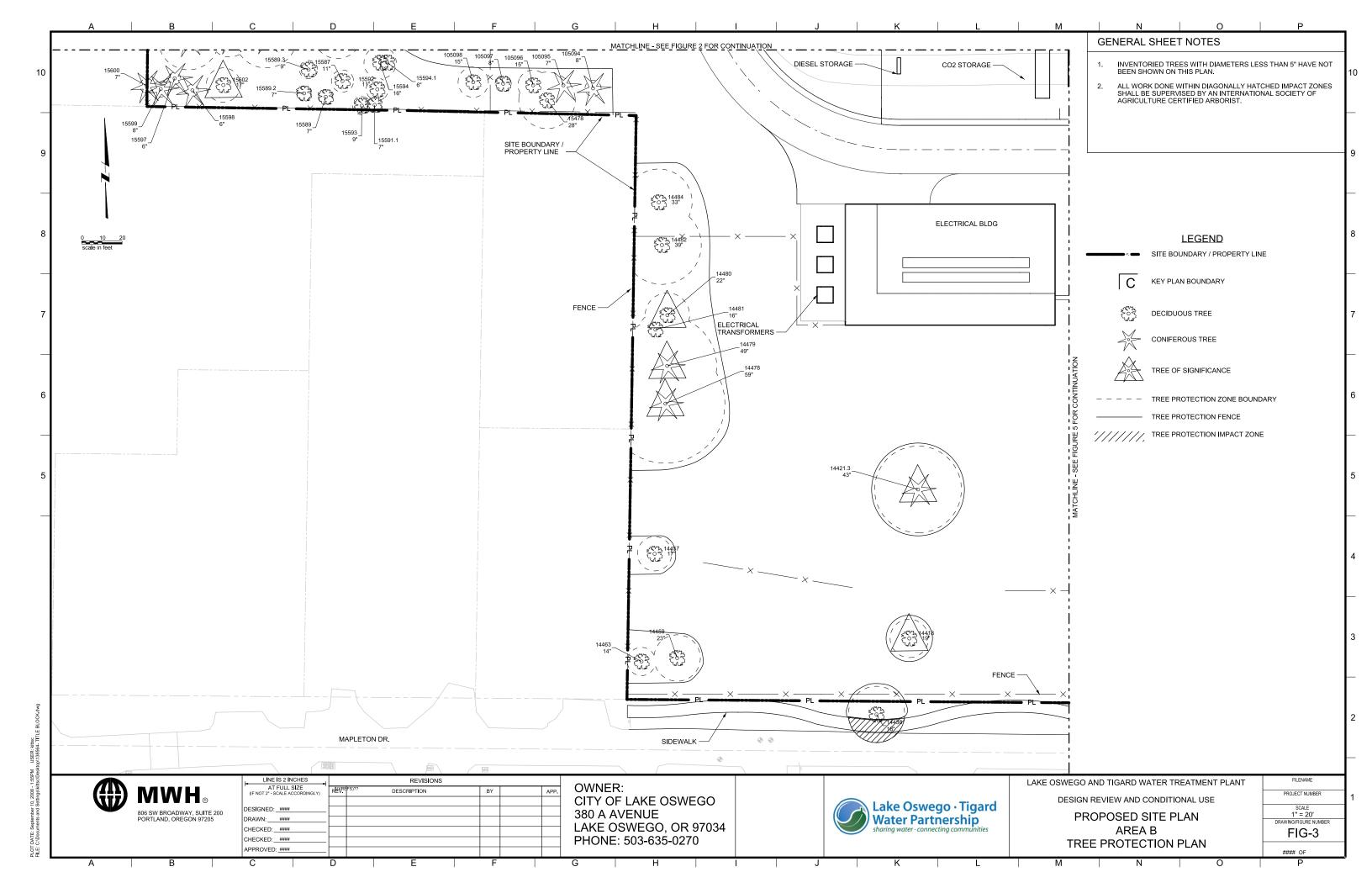
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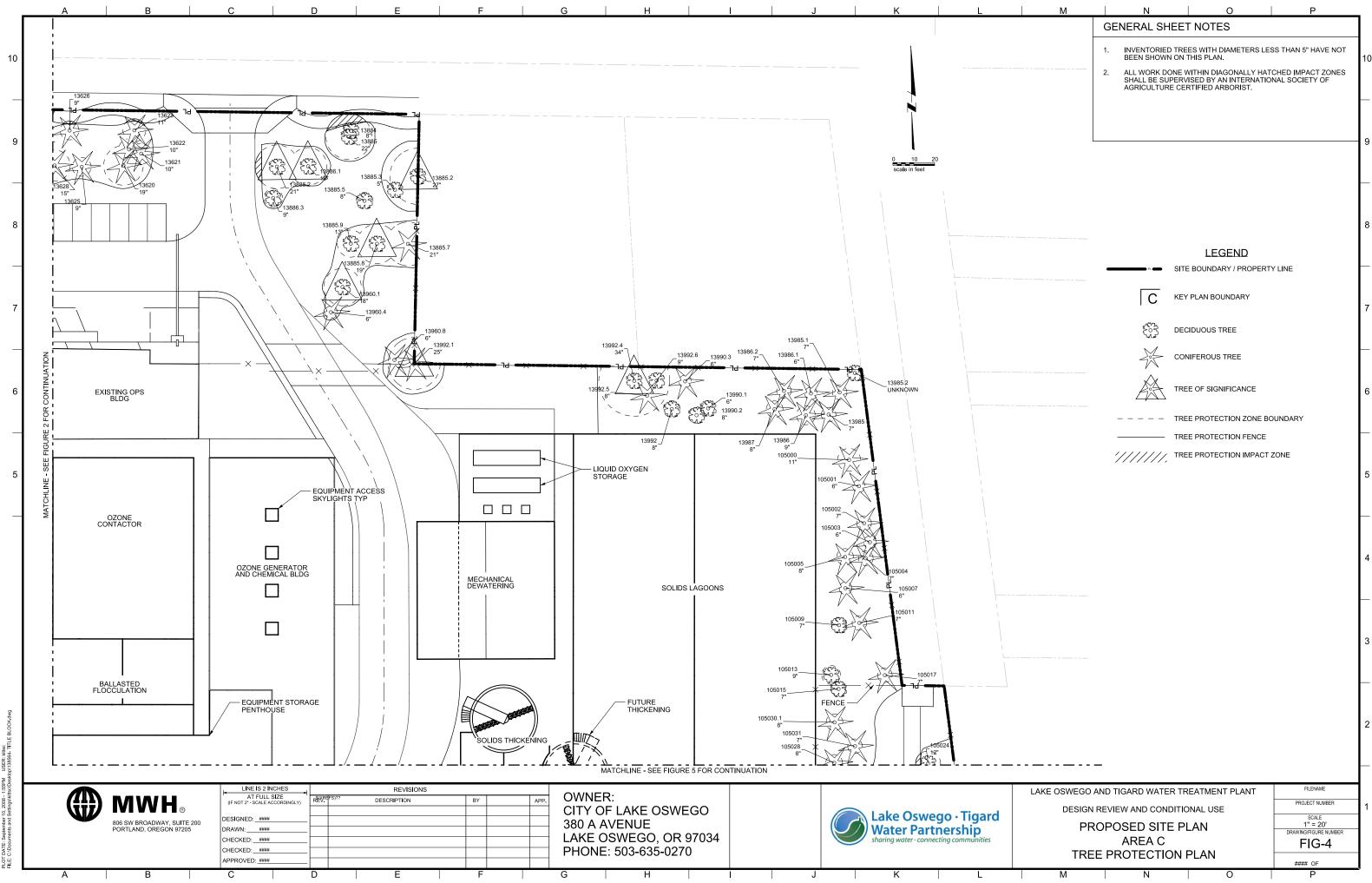
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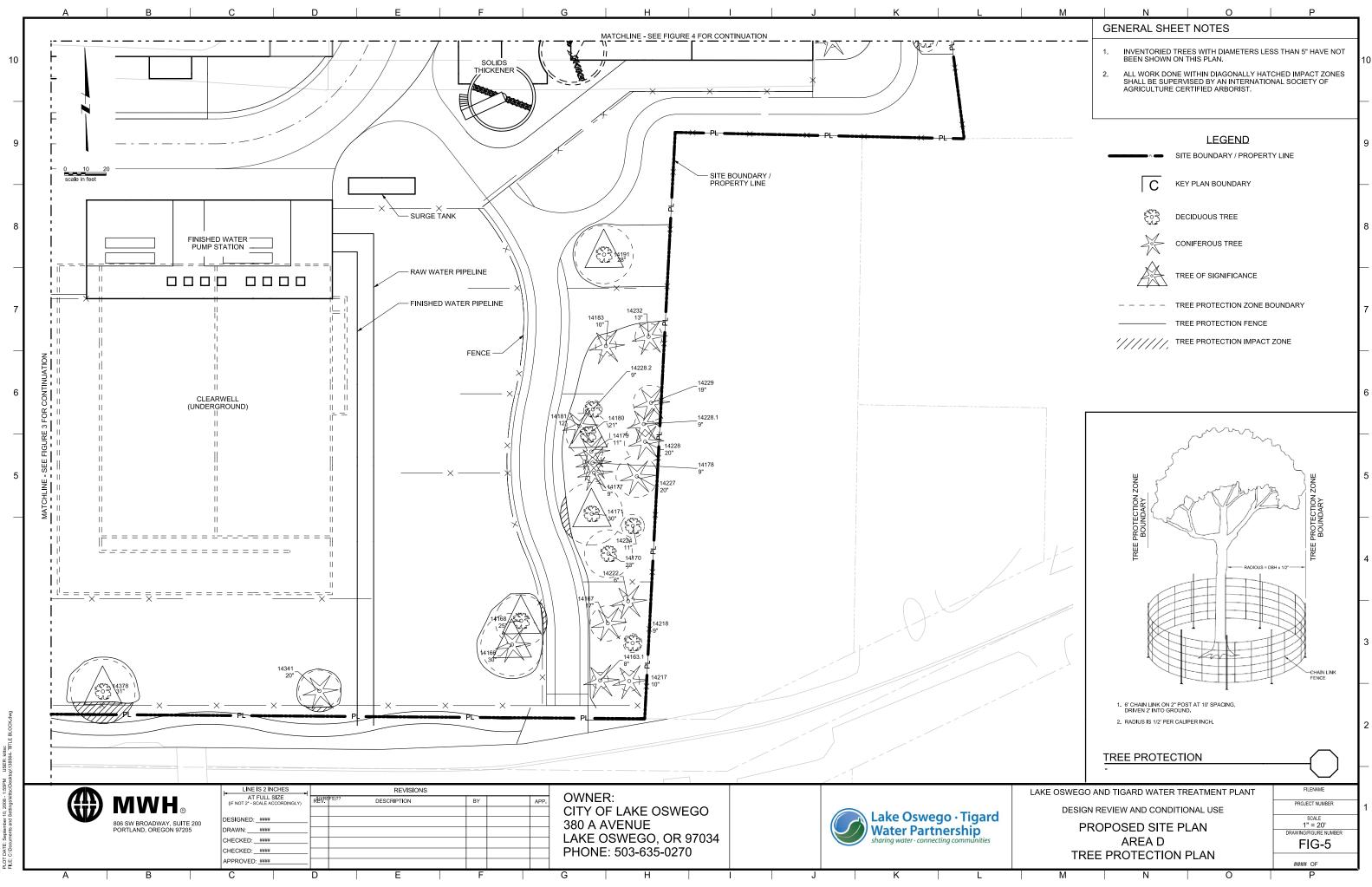




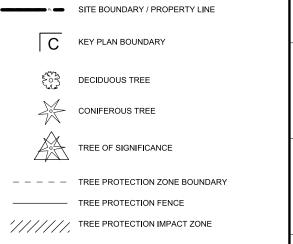


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Technical Memorandum

Final

Date: January 11, 2012

Prepared for: Lake Oswego-Tigard Water Partnership

- Subject: Water Treatment Plant –City of West Linn Significant Tree Mitigation
- To: Eric Day, Lake Oswego
- From: Ethan Rosenthal, Project Manager-Ecologist David Evans and Associates, Inc.
- Prepared by: Ethan Rosenthal, Ecologist, David Evans and Associates, Inc.
- Reviewed by: Eric Eisemann J.D., E2 Land Use Planning Services, LLC.
- Copies to: Terry Buchholz, Integrated Water Solutions, LLC





Introduction

This report has been prepared in support of a City of West Linn (City) land use application for the Lake Oswego-Tigard Water Partnership Project (Project) water treatment plant (WTP). The cities of Lake Oswego and Tigard propose to expand and improve the existing water collection, transmission, and treatment system of Lake Oswego to meet increasing future water demand of both cities. The overall Project lies primarily within Clackamas County, Oregon with a small portion lying within Washington County, Oregon. The project extends approximately 10 miles from the river intake pump station on the Clackamas River in Gladstone, Oregon through West Linn and Lake Oswego to the Bonita Pump Station located in Tigard, Oregon.

This technical memorandum specifically concerns proposed work at the WTP in West Linn, Oregon. The purpose of this memorandum is to document impacts to "significant trees" and proposed mitigation for the loss of these trees.

The following West Linn Code (WLC) items were reviewed:

- West Linn Tree Removal
- West Linn Community Tree Ordinance
- West Linn Tree Technical Manual

Methods

The following steps were conducted to determine significant tree mitigation:

- All trees on-site were professionally land surveyed by West Lake Consultants, Inc.
- The project arborist and West Linn arborist collaborated to determine which trees are "significant." [Note: West Linn code does not specifically define "significant tree."]
- Project designers reviewed opportunities to minimize impacts to significant trees to the greatest extent practicable.
- Site development plan was overlaid with significant tree mapping to determine significant trees impacted (also total trees impacted).
- Mitigation requirements are not clearly specified in WLC. The mitigation ratio used to determine significant tree replacement needs is based on pre-application meeting notes between the project planner and West Linn planning department. Specifically, mitigation was determined based on a one to one ratio of DBH impacted to mitigated.
- Greenworks developed site landscaping plan, which incorporates significant tree mitigation needs.

Significant Tree Impacts

Based on the methods described above, a total of 36 significant trees were identified on-site. Of these, six significant trees will be removed and therefore require mitigation. Mapping of tree removal has been provided as part of the land use application package. Table 1 provides a summary of the significant trees that will be removed. The combined DBH for these trees is182 inches.

	Table 1. Significant Trees Impacted by Project							
Tree #	Common Name	Botanical Name	Diameter at Breast Height (DBH, inches)					
13960	Norway Maple	Acer platanoides	21					
14245	Oregon White Oak	Quercus garryana	20					
14349	Oregon White Oak	Quercus garryana	30					
14366	Western Red Cedar	Thuja plicata	42					
14252	Oregon White Oak	Quercus garryana	30					
14254	Giant Sequoia	Sequoiadendron giganteum	39					
	TOTAL DBH		182					

Significant Tree Mitigation

Based on the 182 inches of significant tree DBH removal, mitigation will require 182 inches of DBH replacement. The project proposes conducting this replacement by planting 91 sapling trees at 2 inch caliper per tree for a total of 182 inches. In addition to the 91 trees needed for significant tree mitigation, an additional 217 trees will also be planted. This will result in a total of 308 trees being planted on-site. Although the final tree count is subject to minor changes, the 91 trees to be planted for significant tree mitigation will not change.

Detailed planting plans, including a plant schedule noting number of each species to be planted, are provided as part of the land use application package.