Assessment of 995 Trees
at
The Rise (Proposed Project)
(Formerly known as Vallco Town Center Project)
North Wolfe Road
Cupertino, California

Site Visits:

Walter Levison, Consulting Arborist (WLCA)

(2015 to 2022)

Report:

(WLCA)

10/5/2015
Revised 6/14/2019 & 3/23/2022

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1.0 Summary

Project Snapshot:

- 995 total trees tagged and assessed by WLCA remain in the landscape as of the date of writing. These trees are tagged #1 through #875 (875 trees), and #1,106 through #1,245 (140 trees). Trees removed from the landscape have been deleted from the database, and two "control points are within this tag number range. Less than twenty tree specimens within this tag number range have been removed since the original survey, due to decline in condition, death, vehicle impact, vandalism, etc.

- 549 removals are proposed by project team, including:

    - o +/-374 "standard trees" as defined by the project landscape architect.
    - o +/-85 "street trees" as defined by the project landscape architect.
    - o +/-90 "development area trees" defined by the project landscape architect.

  464 trees have been approved by the City of Cupertino for removal (SB 35 Planning Approval, 9/15/2018). This is the sum of the "standard trees" and the "development area trees" noted above (374 + 90 = 464).

  Note that the street tree and development area tree tallies above in this bullet item have been slightly adjusted to account for the conditions of approval-required transplant trees noted in SB 35 planning approval on 9/15/2018 (i.e. trees #67*, 70, 97, 98, and #99). These transplants are street tree and development area tree specimens.

- Six (6) transplants were originally proposed by project team (trees #414, 415, 416, 260, 261, 262). These are large protected-size California sycamore trees located along North Wolfe Road. The City of Cupertino has allowed the project team to use their discretion in transplanting or removing these six (6) trees, and they are deemed "discretionary transplants" as of 6/14/2019.

  As of the date of writing 6/14/2019, the City of Cupertino is requiring that the project transplant five (5) trees #67*, 70, 97, 98, and #99.

- At least 105 additional removals are suggested by WLCA in addition to the 549 removals already proposed by the team. This grouping includes evergreen tree specimens (mainly coast redwoods) found to be in "very poor" overall condition (i.e. a tree with a rating of less than 30 overall condition rating points), or "dead per follow-up assessments by WLCA in 2017, 2018, and 2019.

  Many of the coast redwoods along the west side of West Perimeter Road are declining in overall condition, and exhibit symptoms of canopy twig and needle dieback due to the extended California drought period of +/-6 years total time period, and which just recently ceased after very high relative rainfall totals occurred from Fall, 2018 through May, 2019.

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*Note that tree #67 is a street tree ash specimen, and that the actual tag number of the holly oak to be transplanted is "#69" (not #67).

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- Approximately 446 trees minus the eleven (11) transplants are to be retained on site per the most current iteration of the tree disposition sheet P-0602B dated 3/23/2022, which is a subtotal of +/-435 trees to be retained and protected in place. Many individual specimens in this group are in very poor overall condition, or dead (see the list of 105 additional removals suggested by the author).

- CALIFORNIA DROUGHT (+/-2012-2022) EFFECTS ON STUDY TREES AS OF 3/23/2022:

Roughly 10% or more of the total coast redwood population at the project is now dead, up from 5% in 2015. Many of these trees were already in very poor overall condition when originally surveyed in 2015.

At least sixty (60) evergreen tree specimens (again, mainly coast redwood specimens, but also including shamel ash tree specimens as well) have newly fallen into the “very poor” overall condition category since the original 2015 tree survey by WLCA. The prolonged California drought condition which persisted from roughly 2012 through 2018 was the main cause of this decline. Roughly 32% or more of the total coast redwood population at the project is now in the “very poor” category, up from 16% in 2015.

The average loss of overall condition rating points by project tree specimens observed by WLCA between the original 2015 WLCA tree survey and this 2019 WLCA resurvey and report update was roughly minus 5 to minus 10 points per each evergreen tree, out of a total of 100 points possible in the tree condition rating system used by WLCA.

There were also a small number of coast redwood specimens which experienced an uptick in live twig density and live twig extension, resulting in increases in overall condition ratings for those trees. Some of the trees are experiencing new green shoot growth along their vertical mainstems and along their horizontal scaffold branches, as of spring, 2019.

Important Note:

The coast redwood and shamel ash species are not appropriate species for use on a dry Santa Clara Valley site such as the proposed project area, and cannot be expected to thrive forever in an urban desert type situation. The additional +/-105 total dead and very poor overall condition trees suggested by WLCA to be removed may thus not accurately reflect the true status of declining trees along east perimeter road and west perimeter road which were negatively affected by soil moisture deficit (aka “drought stress”) for many years. Even though the project is now building extensive high flow rate temporary over-grade irrigation systems for the trees to be retained throughout the project site, it may not mitigate the many years of droughty conditions that the trees endured. It is not clear if the trees in poor or very poor overall condition will be able to rebound with renewed vigorous shoot and foliar growth to fair or good overall condition rating, even with recent very heavy rainfalls of 2018-19 and the new heavy irrigation water applications.

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1.1 2019 Temporary Irrigation System Overview

(Excerpted and edited from the Walter Levison May, 2019 project site demolition phase 1a arborist inspection report)

An active, running, temporary over-grade irrigation system has now been built such that it extends all the way from a southwest entrance to the project site, all the way north to the northmost end of west perimeter road where it abuts up against the north end of the site. The system is set to run continuously throughout the year, multiple days per week, regardless of natural rainfall inch total accumulation into the open soil root zones of the trees. There are multiple valves with multiple timers present that are running on A/C current, in order to split the trees into groups fed by separate sections of pipe to minimize pressure loss along the pipe runs.

The activation of the systems requires no human effort, and they are set to operate throughout the year.

By using large diameter ½" high flow type (1GPM) flood bubblers, there is less likelihood of bubbler clogging as would otherwise occur if emitters or smaller diameter bubblers were built into the system.

Temporary Irrigation System components:

- Salco brand flexible PVC. UV and algae resistant. Salco model #PVC-AR-050IPS. "1/2 inch" diameter.
- White PVC ½ diameter" tubing couplings.
- "1 gallon per minute" flood bubblers.

Irrigation System / Flow Volumes from Testing April, 2019 by WLCA:

Irrigation System Volumetric Flow Test by WLCA (Spring, 2019)	PVC Irrigation Pipe Diameter	Output per Each 60 Seconds	System Timer Activation	Total Output Volume per Week per Tree	Output Volume per Month per Tree
1	1.5"	1/8th gallon	4x/week, 20 minutes activation time, 2 bubblers per each tree	20 gallons	80 gallons
2	1.0"	1/16th gallon	(Same as above)	10 gallons	40 gallons
3	1.5"	1/8th gallon	(Same as above)	20 gallons	80 gallons

The total number of trees being irrigated along the west side of west perimeter road is roughly 275 trees.

The total monthly volume of irrigation output can be extrapolated as follows:

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a. 65% of trees fed using 1.0" diameter piping along west perimeter road
= 0.65 X (275 X 40 gallons) = 7,150 gallons/month

b. 35% of trees fed using 1.5" diameter piping along west perimeter road

= 0.35 X (275 X 80 gallons) = 7,700 gallons/month

TOTAL ESTIMATED VOLUME OF WATER USE PER MONTH ALONG WEST PERIMETER ROAD: +/- 15,000 GALLONS.

The irrigation system is expected to be enlarged in upcoming months and years, using the same or equivalent components as described above, throughout the remaining areas of the project site where trees are to be retained (e.g. Stevens Creek Blvd. ash trees along the sidewalk, East Perimeter Road trees adjoining the Apple campus east of the roadway, etc.). Per WLCA's communication the project team, public bids for additional irrigation system builds for the additional areas to be irrigated on the project site are in-process as of 6/14/2019.

Above: Image of the new 2019 temporary flood bubbler irrigation system set over-grade along the west side of west perimeter road, with flexible UV-resistant Salco brand tubing cold-welded to white PVC main lines. This type of high flow system is going to be built up throughout the entire project site over time, as planned demolition expands out from this initial phase along west perimeter road.

Note: The team has been directed to place the bubblers as far as possible offset from the trunks of the trees, with the understanding that roots extend as much as 50 feet or more from the trunks. Bubblers on the west perimeter road temporary tree irrigation system were required to be placed near to the trunks in order to allow for golf carts and other vehicles to pass over the root zone.

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Note also that the irrigation system is not currently visible from the road, and requires key access into the fenced root protection zone (RPZ or TPZ).

1.2 Summary Table

The following matrix summarizes existing conditions at the site, and includes detailed information on tree disposition related to the current proposed development entitled The Rise project. The information was too complex to be presented in standard bulleted format:

Line Number	Description	Details	Species	Condition Ratings	Municipal Protection Status?	Total Count
1	Total trees at site	Tree tag numbers ranging from #1 through #875, and from #1,106 through 1,245, with control points and trees already removed from the landscape since 2015 included as blank rows in the Excel tree database.	Various	Ranging from “dead” to “good”.	None, except for six (6) trees to be transplanted as noted below on line 2 of this table.	995
2	Protected trees on site (City of Cupertino tree ordinance)	#260, 261, 262, 414, 415, 416	California sycamores	Fair to Good (see Excel tree data table for more details).	Yes	6
3	Transplants initially proposed by team (WLCA suggests considering retaining the trees in-situ, or removing the trees.	Six (6) protected trees in medians #260, 261, 262, 414, 415, 416.	California sycamore (protected specimens)	Fair to Good Condition (see Excel tree data table for more details).	Yes	6

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Line Number	Description	Details	Species	Condition Ratings	Municipal Protection Status?	Total Count
4	Transplants required by the City of Cupertino per SB 35 Planning Approval, 9/15/2018.	Five (5) trees in the Bay Club parking lot vicinity.	Trees #69, 70, 97, 98, 99	Various	No	5
5	STANDARD TREE Removals proposed by team per sheet P-0602B revision date 3/23/2022.	Direct and indirect conflicts with proposed demolition and new construction.	(Tag Numbers) # (1-7), 101, (108-114), (115-200), 203, (205-208), (210-218), (229-259), (264-269), 271, 272, (294-327), 329, (331-375), (376-413), (417-427), (445-449), (476-489), (490-518), 521, 566, (684-703), 720, 723, 728, 739, 744, (731-733), 745, 771, (1215-1220), 1222, 1223, 1234, 1244.	(Various condition ratings)	No	374
6	STREET TREE Removals proposed by team per sheet P-0602B revision date 3/23/2022.	Direct and indirect conflicts with proposed demolition and new construction.	(Tag Numbers) #8, 9, 11, 13, (25-27), 31, (36-40), 63, (65-68), 88, 106, 107, 219, 220, (222-224), (225-228), 263, 270, 273, 274, 276, 277, 278, 279, (284-292), 330, 430, 434, 438, 439, (440-443), (450-454), (456-459), 462, 464, 466, 467, (1106-1113), (1127-1133), 1245.	(Various condition ratings)	Yes	85
7	DEVELOPMENT TREE Removals proposed by team per sheet P-0602B revision date 3/23/2022.	Direct and indirect conflicts with proposed demolition and new construction.	(Tag Numbers) #(89-96), 100, (1134-1214).	(Various condition ratings)	No	90

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Line Number	Description	Details	Species	Condition Ratings	Municipal Protection Status?	Total Count
8	ADDITIONAL TREES Suggested to be removed by WLCA due to "dead" or "very poor" overall condition ratings.	**Note: In this evergreen tree grouping, WLCA did <u>not</u> include deciduous trees along east perimeter road or west perimeter road.**	(Tag Numbers) #281, 283, 435, 440, 441, 467, 468, 519, 522, 536, 547, 555, 564, 567, 583, 592, 597, 598, (603-608), 610, (628-631), (633-637), 639, 646, 648, 653, 654, (659-661), (669-672), 675, 677, 683, (704-708), 711, 714, (716-719), 721, 722, (724-727), 735, 736, 758, 763, 764, 768, 777, 780, 786, 787, 794, 804, (807-817), 821, 825, 827, 834, 836, 840, 843, 846, 852, (853-856), 867, 873, 1119.	Overall condition ratings between zero (dead) and 29% ("very poor")	No	105
9	RETENTION TREES Proposed by the project team to be retained on site, per sheet P-0602B revision date 3/23/2022. **Note that all trees from matrix line 8 above are included in this count.**	Will require temporary irrigation plus chain link root protection zone fencing and/or trunk buffer wraps during construction for the duration of the project.	(Tag Numbers) #10, 12, (14-24), (28-30), (32-35), (41-50), (53-62), 64, (71-87), (102-105), 221, 275, (281-283), (428-429), (431-433), (435-437), 444, 455, 460, 461, 463, 465, (468-475), 519, 522, (524-547), (549-550), (552-564), (567-583), (585-683), (704-708), (710-719), 721, 722, (724-727), 729, 730, (734-738), (740-743), (746-770), (772-875), (1114-1125), (1127-1233), (1235-1243).	(Various)	No	435
10	West perimeter road trees in vicinity of trenching. Various tag numbers **(#571 to #871, etc.)** Tree disposition: Unknown until finalized building set of plans is overlaid onto tree plot sheet P-0602B to verify.	Proposed utility trenching per street plan sheet P-0406 Expect potential negative impacts to trees if utilities not installed using pit to pit directional bore technology	Coast redwoods, shamel ash, etc.	Various	No	300+

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Line Number	Description	Details	Species	Condition Ratings	Municipal Protection Status?	Total Count
11	East side of east perimeter road. Various tag numbers **(#518 to #570, etc.)** Tree disposition: Unknown until building set of plans is available for review.	Proposed utility trenching per street plan sheet P-0406 Expect potential negative impacts to trees if utilities not installed using pit to pit directional bore technology	Shamel ash, Chinese elm, etc.	Various	No	50+
12	Potential root loss to trees along east side of N. Wolfe Rd. Tree tag numbers (**#430, 431, 432, 433, 434 435, 437, etc.)**	Proposed utility trenching per street plan sheet P-0406 Proposed communication line trench running north-south between freeway 280 and Block 12 development (if the utility is not installed using pit to pit directional bore technology)	Giant sequoia, coast redwood, shamel ash (Note that author WLCA suggests considering some trees in this grouping for removal, such as #434 and #435 per line 5 of this matrix).	Ranges from 'very poor' to 'good'.	No	9+

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Line Number	Description	Details	Species	Condition Ratings	Municipal Protection Status?	Total Count
13	Conceptual Landscape plan and Irrigation plan impacts to existing trees (as applicable)	Only limited impact assessment was performed by WLCA, due to the conceptual nature of the current designs shown on proposed plan sheet P-0603, etc. available as of the date of writing.	WLCA reviewed tree species proposed for use by the landscape architect Olin Studio, and offered alternatives to some species or cultivars deemed inappropriate. The planting palette is being adjusted over time. WLCA will continue to work with Olin to refine the tree species and cultivar list as applicable. WLCA also offered limited analysis of potential landscape and irrigation trenching impacts to existing trees. See section 5.0 of this report below.			

2.0 Assignment & Background

Walter Levison, Consulting Arborist (WLCA) was initially retained in 2015 to tag and assess 895 trees throughout the existing site that extends from perimeter road west to perimeter road east, and from freeway 280 to Stevens Creek Boulevard, Cupertino, California, including median trees along North Wolfe adjacent to the project site. The east boundary of the survey area was a property owned by Apple Inc. The west boundary of the survey area was a developed single family residential area. Tags in this area are tagged #1 through #875 (round-shaped tags), with median trees tagged as #1,106 through #1,125 (racetrack-shaped tags) along N. Wolfe Road. Additional trees #1,126 through #1,245 were later tagged and assessed by WLCA in 2018.

The total number of site trees discussed in this tree study is 995 trees.

WLCA's initial work product consisted of an Excel tree data set in PDF format, along with digitally marked up tree location maps. The initial proposed development set of plans had not yet been developed at that time, and was not available for review.

A secondary tree study was also completed by WLCA, which involved tagging, assessing, and locating on a topo sheet all trees located north of the project site in a triangular lot known as 'Alternate Lot West', situated between the northwest corner of the project site and freeway 280. Trees in this area were tagged as trees #876 through #1,105, with round- shaped tags to #1,000, and racetrack-shaped tags for trees numbering greater than #1,000. Twenty (20) additional North Wolfe Road median trees #1,106 through #1,125 were added at this time, using the racetrack-shaped tags as noted above.

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WLCA was retained in September 2015 to prepare a formal written arborist report that was to include the following items:

a) Review the set of proposed plan sheets as available in September 2015. If possible, note conflicts where initial proposed utilities and construction may impact trees being retained, and discuss adjustments to the plans as applicable.
b) Update the existing Excel tree data spreadsheet to note an "X" in removal column indicating tree to be removed.
c) Discussion of trees to be retained and trees to be removed, including species overviews, condition ratings, etc.
d) Note trees protected per Cupertino City Tree Ordinance being retained and removed.
e) Note trees suggested by WLCA to be removed due to very poor condition.
f) Note possible adjustments to the scope of construction to optimize tree survival and/or preserve important trees on the site as applicable (see also item 'a' above).
g) Note irrigation and soil moisture deficit concerns and options.
h) Note tree part failure risk concerns.
i) Archive digital images of some important or otherwise noteworthy tree specimens and include those images in the report.
j) Attach the updated Excel tree data charts and a master tree location basemap to the report.
k) Prepare recommendations for transplanting on-site for significant sized trees that are expected to be removed as a result of site plan work, with new install locations to be noted by Consultant on the proposed site plan drawings. Specifications for holding trees in boxes, etc. (i.e. "box holding" recommendations for irrigation, maintenance, etc.).
l) Recommendations for tree protection and maintenance based on arboriculture BMPs, with phased protection and maintenance conforming to the current proposed demolition and construction phases 1, 2, and 3.

All of the above items are included in this written report. Most of the information has been presented in matrix (table) form, for ease of reference. The WLCA tree data sheets (Excel format) are attached to this report.

2017-2019 Updates:

- WLCA reviewed the new tree disposition plan sheet P0602, iteration date 9/15/2018, which shows trees to be retained, trees to be removed, and trees to be transplanted as small color-coded circles along with each tree's numeric tag number. This sheet is attached to this report for reference of existing tree locations.

- WLCA revisited the site on 12/8/2017 to assess all tree specimens along Stevens Creek Blvd and along North Wolfe Road to determine overall condition ratings. These ratings were added to the rightmost column of the tree data table. The data table with these updated ratings is attached to the end of this report. Due to time constraints, no trees in areas other than these two major street planting zones were reassessed.

  One important note: Shamel ash (*Fraxinus uhdei*) undergoes an unusual Fall season leaf senescence (dieback) during which time each individual tree specimen loses a portion of its leaves. The actual loss of leaves falling to the ground may range from zero to 50% or more of an evergreen ash's tree's entire foliar canopy, and is considered a normal process as might occur on a deciduous tree species. The problem with this unique senescence in evergreen ash trees is that the variation in total loss of foliage in Fall makes it very difficult

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for an arborist to visually assess the tree's overall condition rating from the ground in an accurate manner. Therefore, the condition ratings determined by WLCA on 12/8/2017 for evergreen ash trees along Stevens Creek Blvd and along N. Wolfe Road are considered "approximate" due to this variability in leaf loss, since in many cases the loss of foliage on these trees appeared to be due both to normal Fall leaf senescence and to twig and branch dieback resulting from years of California drought conditions.

- WLCA revisited the site on 1/9/2018 to determine overall condition ratings for all of the evergreen tree specimens throughout the entire proposed project site (e.g. coast redwoods, southern magnolias, etc.). During this site visit, shamel ash, pears, Chinese elms, and other deciduous tree specimens were omitted from the study, given that by January, these trees had lost most or all of their foliage for the winter leaf senescence period. Determining accurate overall condition ratings for these deciduous trees was no longer possible by this date of survey.

- The report summary section has now been completely updated to show additional information as of June, 2019. In addition to the list of trees to be removed by the project, additional trees currently dead or in very poor overall condition are included in a separated updated list of WLCA-suggested trees to be removed. Various arborist report tables were updated or inserted into the document to account for the significant change in tree overall condition ratings observed in this most recent field assessment, and to account for electrical vault work along west perimeter road, etc.
- WLCA reviewed the 1/2/2018 iteration of conceptual utility plans, grading and drainage plans, landscape plans, etc., and commented on these throughout this report update where applicable.

- WLCA reviewed the 9/15/2018 and later November, 2018 iteration of the tree disposition sheet P-0602B prepared by Olin and Rafael Vinoly Architects. Trees #1,126 through #1,245 were tagged, assessed, and added to the Excel tree data spreadsheet, and tree removal status was updated in real time using color coding and shading of the database rows to account for removals occurring during demolition phase 1a which is on-going as of 6/14/2019. Various trees were added to the survey by WLCA at the request of Sandis Civil (project engineer). Sections of the arborist report were similarly revised, after assessment of tree disposition sheet P-0602B dated 9/15/2018. No other plan sheets were assessed during the 6/14/2019 arborist report revision.

- WLCA has been monitoring the west perimeter road temporary irrigation system setup and activation, tree fencing repairs, tree conditions (canopy twig decline, new shoot and foliar/needle growth, etc.), and underground electrical vault work along west perimeter road, in 2019, throughout "demolition period 1a".

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- 3/23/2022 UPDATE: A revised tree disposition plan dated 3/23/2022 by Olin Studio was reviewed by WLCA, and attached to the end of this report. Twelve (12) additional street trees were added to the list of planned removals that will be removed due to project conflicts, which reduces the total number of trees being preserved and protected in place (PIP) by twelve (12) trees:

Line Number	Tree Tag Number
1	63
2	65
3	66
4	67
5	277
6	284
7	440
8	441
9	442
10	466
11	467
12	1245

3.0 Observations & Discussion

3.1 Predominant Tree Species at Property

Tree Species	Number of individuals	Percent of total tree population of the original 895 individuals surveyed in Spring 2015
Shamel ash (*Fraxinus uhdei*)	399	45%
Coast redwood (*Sequoia sempervirens*)	319	36%
Pine species (mainly *Pinus radiata* and *Pinus pinea*)	65 (approx.)	7%

As seen above, the tree population percentages of coast redwood and shamel ash along the project property perimeter are far too high for a stable urban forest situation. In an ideal world, we would stratify the population out using a large number of tree genera and species to guard against pest and disease outbreaks (and abiotic issues such as drought conditions) that could potentially wipe out a large percentage of the tree population.

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The existing minimal-diversity type planting was from an earlier era when the project site was originally built out and planted using mainly coast redwood and shamel ash. These trees are very heavy water users, and have been suffering for years during the continuing California drought conditions with subnormal rainfall. Supplemental very heavy irrigation on a regular basis throughout the year is crucial to keeping coast redwood and shamel ash alive and vigorous. However, the ash and redwood specimens at the site have not been receiving this level of irrigation, and are spiraling into decline and in many cases death.

At this time, the property owner is not proposing any significant alterations to the perimeter tree populations on the property, and the screening benefit of the perimeter trees will remain as long as individual trees are alive and thriving. Note also that many of these trees are not actually on the project property and are actually within a public utility right of way (personal communication, project property owner 10/23/2015).

WLCA Update 2019: +/-32% or more of the coast redwoods along West Perimeter Road and East Perimeter Road are now in “very poor” condition, and +/-10% of the coast redwoods are “dead”. These trees are suggested by WLCA to be removed due to their limited usefulness in the landscape, and are noted by tree tag number in Summary Table in section 1 of this report.

3.2 Tree Condition Studies

Overall Tree Condition Ratings for Two Main Species in Population as of June, 2019:
(Not including alternative lot west)

Tree Species	Number of individuals	Dead (as of 2019)	Very Poor (as of 2019)	Poor	Fair	Good	Excellent
Coast redwood	319	Est. 34	Est. 102	Est. 35	Est. 105	Est. 41	2
Percent of redwood population	(100%)	Est. 10%, up from 5% in 2015	Est. 32%, up from 16% in 2015	Est. 11%	Est. 33%	Est. 13%	<1%
Shamel ash (Only the overall condition ratings of trees along Stevens Creek Blvd and along N. Wolfe Rd. updated 12/2017)	399	2	76	185	126	10	0
Percent of Shamel ash population	(100%)	<1%	19%	46%	32%	3%	0%

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Interestingly, the above study originally showed somewhat of a bell curve form, where most of the tree individuals rated out with overall condition ratings in the middle portion of the rating range (range is from dead (0%) to excellent (90% to 100%). However, after WLCA's reassessment in 2018, the coast redwood bell curve became misshapen, with a disproportionate number of trees (roughly 63% of the total population) ending up in the "very poor" and "fair" categories. What basically occurred was that many of the trees in the "poor" category declined over the last few years of drought, and fell into the "very poor" category, thereby reducing trees remaining in the "poor" category.

If droughty conditions continue in California with subnormal natural winter period rainfall, many of these trees could continue spiraling into decline and end up with all ratings in the dead, very poor, and poor portion of the rating range, unless very heavy irrigation were to be commenced at this time and continued regularly through the entire winter.

(WLCA update 2019): In fact, we did experience continued droughty conditions through late 2018, which caused many coast redwood specimens to either newly fall into a state of "very poor" condition (i.e. drop below the threshold of 30% overall condition rating points) or newly die outright. Although a few coast redwood specimens did improve in terms of overall condition ratings, the above average rainfall that occurred in the 2016-17 water year did not seem to significantly improve the overall tree health or structural status at the project. The 2017-2018 water year was below average. Far above-average rains during the 2018-19 water year did not seem to "boost" tree vigor in more than just a handful of redwood specimens at the project.

(See section 3.3 below for WLCA update 3/23/2022 regarding drought effects vs. irrigation).

Author's Side Note / Shamel Ash Assessment:

WLCA was requested to reevaluate all shamel ash specimens proposed to be retained by the project team using tree disposition sheet P0602 iteration date 01/02/2018, along the North Wolfe Road and Stevens Creek Blvd. major view corridors. The result of this site visit was that a larger number of trees were found to be in very poor overall condition (i.e. between zero and 29% overall condition rating). Trees in very poor condition are typically recommended to be removed from the landscape due to limited safe and useful life expectancy. As of 12/10/2017, WLCA added all shamel ash specimens in very poor condition (only specimens along the above-noted two street planting areas) into the "WLCA Recommends Removal" category, noted by tag number in the summary table above in this report.

It was relatively very difficult to assess the ash specimens in December 2017, due to the fact that individual ash specimens tend to hold onto their leaves in Fall/Winter at varying rates that range from 100% retention to roughly 50% retention, even though the species *Fraxinus uhdei* is generally known to laypersons as "evergreen ash". This presents a problem with visual assessment, since many trees will lose a large percentage of their foliar canopy as part of normal leaf senescence that resembles the process for deciduous trees. The tree may be termed "partial deciduous" given its tendency to lose foliage.

The species also drops a profusion of winged keys or "samaras" (the fruits of the ash tree) which fall from short stems along extended branches that appear as fruit clusters in the tree. This causes the tree to appear further denuded in Fall, and to the casual eye may look as if the tree is "dying". In fact, all of the branches that hold samaras are living stems, and are in no way related to twig dieback or other decline of the tree's health or structure. The presence of the denuded fruit cluster branches does however further complicate the visual assessment of an evergreen ash

tree's status in Fall and Winter, as it creates bare patches in the canopy that appear "dead" unless the arborist assessor can identify the presence of the tiny stems present along the cluster branches from which the samara fruits disengaged.

3.3 Drought Effects on Project Site Trees

Given the low soil moisture conditions that have been present in the San Francisco Bay Area for many years now, and continued subnormal natural rainfall conditions (until Fall, 2018), the moisture available to the coast redwood and shamel ash tree root zones at the project site is very minimal during summer and fall season periods. This has resulted in chronic loss of live twig density and live foliar density in the trees, which is expressed visually as desiccated, dead patches of canopy seen in the trees, especially in the outermost, uppermost sections of the tree canopies of individual specimens along the east and west sides of the west perimeter road (see images below in this report).

It is not clear whether tree vigor (new live twig and foliar growth) will be or can be boosted through either very heavy, sustained supplemental irrigation of the trees' root zones, or through natural rainfall finally occurring after the (existing) prolonged period of subnormal soil moisture. Generally, trees that decline to an overall condition rating of poor (i.e. less than 50%) will not increase in vigor until very heavy irrigation is applied over an extended period of 6, 12, or even 18 months[1] to the trees' entire root zone areas. Even after this type of serious irrigation regime commences and is continued for the extended period, the trees may still not respond favorably, and will continue to decline. High quality irrigation water with low ionic content needs to be available for supplemental irrigation of coast redwoods. See section 3.4 and 3.5 below for more information.

(WLCA update 3/23/2022): We have now experienced drought years through most of the individual water years within the period 2011-2022, as reported by NOAA and other government agencies. Our heavy irrigation of trees being retained at the project, using above-grade high flow type ½" diameter flood bubblers timed to emit water at a relatively high frequency and duration have boosted soil moisture to 70-100% for most trees on the site for a number of years now. This has resulted in relatively large percentage of the project site coast redwoods either stabilizing in terms of their overall condition ratings, or improving live twig extension and live needle density slowly over time. However, a similarly large percentage of the redwood specimens appear to have declined in terms of TDE, even after having been heavily irrigated year-round for multiple years via this piped over-grade water delivery system. Given that the species can still decline or possibly even die prematurely during a drought period in the Bay Area while being heavily

[1] Levison, Walter. Professional consulting experience with irrigation of coast redwoods on construction sites on South Bay and Peninsula, Bay Area locations, between 1999 and 2015.

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irrigated year-round, I see this as clear evidence supporting WLCA's initial prognosis from 2015 that the existing perimeter redwood specimens need to be removed and replaced with trees such as drought-tolerant non-native oak species more suitable for long-term use at the project, with its dry summer type climate.

3.4 **Moisture Deficit / Moisture Requirements**

Shamel Ash and Coast Redwood Moisture Requirements

In order to keep coast redwood and shamel ash specimens from declining in live twig density, live twig extension, and live foliar density over time, a very heavy irrigation regime will need to be set in place as an over-grade no-dig type system placed over the ground throughout the open soil root zones of individual trees and groupings of these trees being retained at the project site.

Although the actual volume of supplemental water to be applied per week per coast redwood specimen varies with soil conditions, weather, solar exposure, and other issues, the following is a set of rough guidelines for water application based on the author's experience. Note that use of a heavy mulch of coarse chipper truck type wood chips lain over the ground surface in a 4 to 6 inch thick layer can significantly reduce evaporation, and thereby help reduce supplemental irrigation needs:

Supplemental Irrigation	Per Week	Per Month, Year-Round (See Tier 4 for Winter Rain Periods)	
1. Tier 1 "Optimal" for an individual coast redwood	Suggest 1x/week irrigation event	20 gallons per each 1 inch of trunk diameter	Based on a standard set forth by another consulting arborist
2. Tier 2 Moderate level (OK for trees with grafted root systems, etc.)	Suggest 1x/week irrigation event	10 gallons per each 1 inch of trunk diameter	
3. Tier 3 During water use restriction periods	Suggest 1x/week irrigation event	5 gallons per each 1 inch of trunk diameter	
4. Tier 4 During Winter Storms (Regular heavy rain events)		Temporary shutoff of irrigation system OK between December and March, depending on intensity of and frequency of rain events.	
5. Optional: Fog, Spray, or Mist Systems	(3x to 7x/week)		

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WLCA generally recommends that irrigation events occur once weekly (1x/week) throughout the entire "open soil sections of the root zones" of the trees, which may be as large as 25 feet radius or more in some cases. The trees' root zone areas need to be allowed to "dry down" as water percolates through the uppermost few feet of the soil profile, and is then used by the trees (transpired) or evaporates into the atmosphere (evaporation from open soil). As noted above in this section, use of mulch is beneficial if a layer 4 inches thick can be placed over the open soil root zone areas of the trees, between approximately 1 foot out and 25 feet out from the trunks of the trees.

Optionally, we could install some type of fogging system to augment moisture uptake by the trees by adding fog water to some lower canopy or mid canopy locations. Redwoods in their natural range along the Northern California coast and Oregon coast forests derive a significant percentage of their water moisture through direct acquisition of fog water through their needles[2]. Thus, use of a fogging system could potentially be of great benefit to the trees, if such as system could be affixed to locations near canopies at varying elevations above grade.

Above right is an image of an actual installed aerial misting system in use on local peninsula Bay Area project redwood specimen. These systems would require a substantial initial investment in piping, mist-heads, and labor to install, but have been beneficial in terms of increasing tree survival during hot or windy periods, according to other arborists and nurserymen I spoke with in 2015.

3.5 Ion Content in Recycled Water / Standards

Many municipalities such as San Jose and Palo Alto are using recycled water as a regular component of their City parks irrigation regime. However, this does come with known drawbacks. Coast redwoods are known to be sensitive to ion concentrations in soil water per the text referenced below[3]. The text notes that coast redwood has low tolerance of boron ion in recycled water. Ion sensitivity of coast redwood as related to other ions such as sodium, chloride, or ammonium was not specifically noted in the text. However, per the author's conversations with numerous city arborists and consulting arborists in the Bay Area, coast redwood appears to have low tolerance of specific ionic content in water in addition to boron ion.

The following table derived from information in the below-referenced text provides some guidelines for total ion content of various ions in recycled water at levels that could be deemed "safe" for trees with low tolerance (high ion sensitivity), although this is only a guideline, and was published more than 10 years ago:

[2] Burgess SSO, Dawson TE (2004). *The Contribution of Fog to the Water Relations of Sequoia sempervirens (D. Don): Foliar Uptake and Prevention of Dehydration.* Plant Cell Environs. 27:1023-1034.
[3] Costello, Perry, Matheny, Henry, and Geisel (2003). *Abiotic Disorders of Landscape Plants: A Diagnostic Guide*. UC ANR Publication 3420. ANR Communications Services. Oakland, California.

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Irrigation Water Ion	Type of Measurement	Content Range Considered "Safe" for Landscape Irrigation	Unsafe for Tree Species with Low Tolerance to Stated Ions
TDS Total Dissolved Solids	Mg/l	<450	450 to 2,000
Salinity	Mmhos/cm	<0.7	0.7 to 3.0
Boron	Mg/l	<0.5	0.5 to 1.0
Chloride (surface bubbler irrigation)	Mg/l	<140	140 to 300
Chloride (sprinkler irrigation)	Mg/l	<100	>100
Sodium (surface bubbler irrigation)	SAR	<3	3 to 9
Sodium (sprinkler irrigation)	Mg/l	<70	>70

Salinity tolerance of various tree species proposed in project tree palette by the landscape architect is noted in the reference shown in this report as citation #3. WLCA is in communication with the landscape architect staff to discuss salinity tolerance issues.

EXISTING REDWOODS

The new project does not propose to use recycled water for irrigation of the existing redwoods being retained as perimeter screening (personal communication 10/23/2015, property owner). Therefore, the ionic content of irrigation water appears (at the time of writing) to be an issue with new proposed tree plantings only.

USE OF RECYCLED WATER BLEND AND FLUSHING SEQUENCES

To reduce ion content in irrigation water to acceptable levels per the above matrix guidelines, recycled water with high ion content can be blended with standard municipal drinking water prior to running it through irrigation systems for surface application to trees. Per the property owner, this blending will be performed seasonally during non water-restriction periods in order to comply with local regulations regarding potable water use for landscapes during drought periods.

Another "trick" that can be performed to reduce ionic content remaining in the root zones of trees is to use recycled water for a number of irrigation cycles (e.g. 4 to 9 cycles), then "flush" the root zones by using a 5th or 10th irrigation cycle of 100% municipal drinking water (anecdotal

reference). This would require that a very detailed record of irrigation be maintained by a groundsperson on site, to record exactly when recycled water and drinking water was applied to very specific landscape zones. Both recycled water and drinking water would need to be available side by side as irrigation system inputs with manual levers that would be operated by the groundsperson.

OAK TREES BEING INSTALLED

Per discussions with arborist Dave Muffly who is an expert in oak tree selection and cultivation, oak species being installed at the project should be provided with municipal drinking water as the irrigation water source, without any blending with recycled water. This is recommended to avoid potential problems with ion sensitivity by the oaks. Mr. Muffly notes that an adjacent project will not use recycled water for irrigation of the oaks (this project is also within the jurisdiction of City of Cupertino, and has recycled water piping that will be used for irrigation of non-oak landscape zones).

As regards the project roof planting area where many oak species will be installed, we may need to develop a special dual piping system which will allow for recycled water and standard drinking water sources to be piped up separately. This would allow the two water sources to be applied in an alternating manner and/or blended in a tank prior to being applied to sensitive species such as the oaks and fruit bearing orchard trees, to reduce the overall ionic content being applied to the landscape over time.

RECYCLED WATER EFFECTS ON FRUIT-BEARING ORCHARD TREES

WLCA Update 2019: The green roof planting plan sheets are no longer proposing use of fruit trees as plantings for the green roof area, except for Lapins cherry (*Prunus avium* 'Lapins'). As noted on the plans, however, the tree species proposed to be installed at the project site are "subject to change".

Per the text referenced in citation #3 in this report, fruit-bearing tree species originally proposed by the team for the rooftop orchard which were to be for human consumption are noted in the text as exhibiting "low" relative tolerance to ionic content in recycled water used for irrigation. Given that fruit bearing orchard trees generally require heavy irrigation, this is of concern if recycled water is going to be used on the project's greenroof where the orchard areas will be located. As noted above in this section of the report, blending recycled water with municipal drinking water can bring down ionic concentration to levels below the safe thresholds noted above in the matrix. Flushing the tree root zones by use of 100% drinking water on a periodic basis may also be a viable method of reducing ionic concentration buildup in the root zones of the trees, such as the example WLCA noted of 4 to 9 irrigation cycles using recycled water, followed by a 5th or a 10th irrigation cycle using 100% municipal drinking water (anecdotal reference).

Per the author's recent conversation with a Northern California soil scientist who specializes in orchard soils, the inability for fruit trees such as cherry, apricot and apple to tolerate ion content in recycled water used for irrigation appears to be verified. Blending and/or other dilution is warranted.

Again, use of a dual piping system to bring up both standard drinking water and recycled water sources to the greenroof may be able to solve the problem of ionic content in recycled water being applied to the orchard areas, as it will allow us to blend the two sources of water and/or apply them to the landscape in an alternating manner to flush salts through the soil.

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WLCA suspects that over time, municipal recycled water may become of increasingly higher quality in terms of ionic content being reduced to below the low-tolerance sensitivity threshold of 0.7 Mmhos/cm salinity. Refer to the ionic content table 3.5 above for more information.

SPRING 2018 / NEW INFORMATION ON LOCAL SOURCE OF HIGH QUALITY RECYCLED WATER FOR LANDSCAPE PLANT USE

WLCA spoke with Mr. Lyle Frohman of San Jose Recycled Water Treatment Plant in December, 2017 regarding the newest and best recycled water "blend" now available as a retail product for sale to certain municipalities for use as surface landscape irrigation[4]. Mr. Frohman detailed the following information:


CONTACTS

SBWR

City of San José Environmental Services Dept.
Media contact: Jennie Loft (408) 535-8554

RECYCLED WATER RETAILERS

City of Milpitas Water & Sewer
Public Works Department
1265 North Milpitas Boulevard, Milpitas, CA 95035
Phone: (408) 586-2600 www.ci.milpitas.ca.gov

City of Santa Clara Water & Sewer Utility
1500 Warbutron Avenue, Santa Clara, CA 95050
Phone: (408) 615-2000 www.santaclaraca.gov

San Jose Municipal Water System - Recycled Water
Engineering & Operations
3035 Tuers Rd., San José, CA 95121
Phone: (408) 535-3500 www.sanjoseca.gov

San Jose Water Company
110 W. Taylor St., San José, CA 95110
Phone: (408) 279-7900 www.sjwater.com

a. The Santa Clara Valley Water District's new facility came online in 2014, called the **"Silicon Valley Advanced Water Purification Center" (SVAWPC).** This 72 million dollar facility treats wastewater to the tertiary level, and is thus actually potable (theoretically drinkable), with extremely low levels of TDS (total dissolved solids).

   South Bay recycled water from the new plant is then "blended" with City of San Jose Recycled Water Treatment Plant's recycled water of higher ionic content, thereby achieving an overall (average) TDS of 490 parts per million[5]: below the treatment target threshold of 500 TDS for use as surface landscape irrigation water.

   This recycled water "blend" is then sold wholesale to four customers:

   i. City of Milpitas.
   ii. City of San Jose.
   iii. San Jose Water Company.
   iv. City of Santa Clara.

These customers then sell the water blend as a retail product to commercial customers located within their jurisdictions.

These four entities can be contacted to determine if the recycled water blend is available for purchase by the project for use as landscape irrigation water within City of Cupertino jurisdictional area (see contact details above right). It is assumed that commercial clients such as the project can now purchase high quality recycled water from the SVAWPC facility via this route as of 2022 (not verified).

[4] It is not known whether this special recycled water "blend" is available to City of Cupertino area customers such as the project.
[5] Average TDS per 2017 City of San Jose water recycled water quality report at: sanjose.gov/recycled water/retail customer information / water quality reports

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Use of the South Bay blended recycled water which tests at less than 500ppm total dissolved solids means that we would no longer have to worry about landscape tree or plant sensitivity to ionic content in the water, and no additional dilution/blending would be needed prior to our release of the water onto greenroof and/or street level planting areas.

3.6 **Effects of Proposed New Utility Plan on Woody Roots**

The negative effect of proposed new utility trenching per project sheet P-0406 iteration January, 2018 on existing trees to be retained could be significant to severe, depending on the actual final alignments of these utility trenches. The current plan sheet shows utilities as conceptual routing only, and it is therefore difficult to determine actual impacts to specific trees. However, WLCA did note various groupings of trees and expected (potential) impacts to those trees from utility trenching, in the summary table 1.0, lines 9, 10, and 11, above in this report.

Typical woody lateral root growth extends from trees at least 3X to 5X the canopy dripline radius per previously published arboriculture science texts. This growth is generally present between grade elevation (i.e. soil surface) and down to approximately 24 inches below grade in our western Bay Area urban clay-based soils, though in some cases, older redwoods and oaks can achieve large diameter woody root growth at depths as far as 50 to 60 inches below grade[6]

For tree stability maintenance, it is acceptable to sever roots at locations within 25 to 30 feet of large diameter coast redwoods and shamel ash. However, utility trenching within 25 feet of those trees may cause severe negative impacts to the trees' health and structural condition, resulting in premature decline and/or death. In those cases where utilities need to be routed within 25 feet of large trees being retained, WLCA suggests using pit to pit directional bore technology whereby conduit is pushed and pulled **below** the root systems of trees being retained, thereby allowing for almost complete root preservation when done correctly. See image of pit to pit directional bore in action below on one of my projects in the Bay Area. In this particular case, the bore started above ground, and ended at a pit. Typical method would be to start and end at a small dug pit.

[6] Levison, Walter. Professional experience on Bay Area construction sites from 1999 to 2018.

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4.0 Risk of Failure / Tree Risk Assessment Qualified (TRAQ)

Prior to the newer International Society of Arboriculture (ISA) TRAQ system (tree risk assessment qualified) coming into place as the new international standard for tree part and whole tree failure risk assessment, arborist consultants referred to an older numeric system of 12 points which consisted of:

(Outdated Rating System)

- Failure potential of identified part (1 to 4 points)
- Size of part (1 to 4 points)
- Target rating (1 to 4 points)

The final numeric "hazard rating" derived from this system ranged from 3 to 12 points[7].

The newer system is based on alpha-type ratings, and requires the tree risk assessor to attend a rigorous training class sponsored by the ISA, after which the assessor takes a final exam. Assessors that pass the final exam are then given the title "tree risk assessment qualified", after which time they are allowed to use the published system and its components[8] and prepare information on tree risk in written reports. Qualified tree risk assessors must retake the qualification course and exam every few years to renew status as tree risk assessment qualified. The basic TRAQ process has been amalgamated into a matrix below (next page) for readers of this report.

Note that TRAQ risk ratings are derived after consideration of various different failure modes (e.g. branch, scaffold limb, mainstem, whole tree) and different targets such as vehicles, pedestrians, bicyclists, residential structures, commercial buildings, etc. Target frequency and duration at a specific target zone, such as cars and pedestrians stopped at a traffic light, are considered when determining target "occupancy", in order to determine risk of tree part failure and impact of that tree or tree part onto that specific target at that moment when the target is occupying the target zone radius.

[7] Matheny, Nelda and Clark, James. 1994. *Evaluation of Hazard Trees in Urban Areas. 2nd edition.* International Society of Arboriculture, Urbana, Illinois.
[8] Duster, Julian et. al. 2013. *Tree Risk Assessment Manual.* International Society of Arboriculture, Champaign, Illinois.

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TRAQ Protocol Amalgamation

8 - TRAQ FIELD FORM / REVISED 2021 BASED ON 2017 TRAQ MANUAL

Likelihood of Failure	Likelihood of Impacting Target			
	Very Low	**Low**	**Medium**	**High**
Imminent	Unlikely	Somewhat Likely	Likely	Very Likely
Probable	Unlikely	Unlikely	Somewhat Likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat Likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Improbable: The tree or tree part is not likely to fail during normal weather conditions, and may not fail in extreme weather conditions within the specified time frame.

Possible: Failure may be expected in extreme weather conditions, but it is unlikely during normal weather conditions within the specified time frame.

Probable: Failure may be expected under normal weather conditions within the specified time frame.

Imminent: Failure has started or is most likely to occur in the near future, even if there is no significant wind or increased load. This is an infrequent occurrence for a tree risk assessor to encounter, and may require immediate action to protect people from harm. The imminent category overrides the stated time frame.

Very Low: Remote chance that failure will impact target. Rarely used site fully exposed; occassionally used site partially protected. E.g. A rarely used trail or trailhead in a rural area, or an occassionally used area that has some protection due to other trees between the failure and the target.

Low: Not likely that failure will impact target (slight chance). Occassionally used area fully exposed; frequently used area partially exposed; constant target well protected. E.g. A little-used service road next to the tree, or a frequently used street with a street tree between the assessed tree and the street.

Medium: The failed tree or tree part could impact the target, but is not expected to do so. Frequently used area fully exposed on one side of tree; constantly occupied area partially protected. E.g. A suburban street next to street tree, or a house partially protected by an intermediate tree.

High: Likely that the failure will contact the target. A fixed target is fully exposed. E.g. Near a high-use road or walkway with an adjacent street tree.

Likelihood of Failure	Consequences			
and Impact	**Negligible**	**Minor**	**Significant**	**Severe**
Very Likely	Low	Moderate	High	Extreme
Likely	Low	Low	Moderate	High
Somewhat Likely	Low	Low	Low	Moderate
Unlikely	Low	Low	Low	Low

Negligible: low value damage or disruption, no personal injury.

Minor: low to moderate damage, small disruptions to traffic or communication lines, or very minor personal injury.

Significant: moderate to high value damage, considerable disruption, or personal injury.

Severe: high value damage, major disruption, severe personal injury or death.

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Approximately 549 trees at the project site are proposed to be removed from various sections of the existing property, and approximately 105 additional trees are suggested by WLCA to be removed due to very poor overall condition or structural and/or health issues that are unmitigable, for a total of approximately 654 (potential) removals out of 995 trees.

The project team proposes to retain or transplant approximately 446 trees on site, assuming that the 105 trees proposed to be removed by the author will simply remain in the landscape. This tree grouping consists mainly of coast redwoods and shamel ash, along the perimeters of the site that are vulnerable to proposed construction damages in terms of both subgrade impacts to roots from utility conduit and pipe trenching, soil compaction, etc. and above-grade physical impacts to the trunk tissues and canopy live wood and foliage.

Use of WLCA and/or other arborists as construction period tree monitors will help minimize risk of tree damages that could increase risk of whole tree and tree part failure and impact to targets.

Designing around trees to avoid deep excavation, trenching, grading, construction, and other work within 20 horizontal feet of trunk edges can go a long way toward reducing impacts to the trees being retained, and reducing risk of tree failure and impact to targets.

Given the existing issue of soil moisture deficit (i.e. “drought stress”) and lack of adequate irrigation to boost soil moisture within the root zones of trees being retained, WLCA expects that many of the trees to remain may actual become moderate risk or high risk specimens over time due to their premature decline in terms of loss of live twig density. As an example of our current risk exposure and future risk of tree failure and impact to targets as related to irrigation, WLCA offers the following sample risk assessment of a typical coast redwood along the west perimeter road:

SAMPLE RISK ASSESSMENT FOR A COAST REDWOOD TO REMAIN AT THE PROJECT

Typical coast redwood specimen / Mode of Failure	Location	Condition (Average existing)	Likelihood of failure	Likelihood of impacting target pedestrians and cars	Likelihood of failure and impact	Consequences	**Risk of Failure and Impact (Existing)**
#772 to #871 Failure Mode: **Branch**	West side of west perimeter road	Fair	Possible	High	Somewhat Likely	Significant	**Low**
Typical coast redwood specimen / Mode of Failure	Location	Condition (Future estimated)	Likelihood of failure (Future est.)	Likelihood of impacting target pedestrians and cars	Likelihood of failure and impact	Consequences	**Risk of Failure and Impact (Future est.)**
#772 to #871 Failure Mode: **Whole Tree**	West side of west perimeter road	**Very Poor (If trees not heavily irrigated year-round)**	Probable	High	Likely	Severe	**High**

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EXISTING "ELEVATED RISK" TYPE TREES

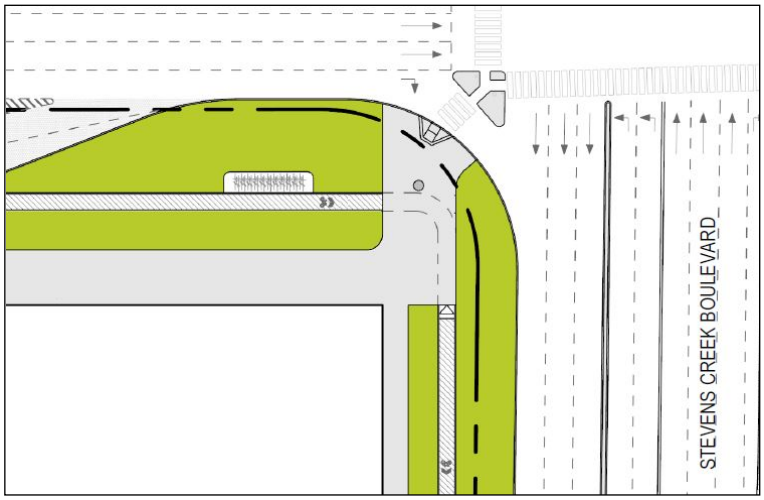
Although outside of the initial scope of WLCA's tree assessment assignment, it is noteworthy that some existing trees exhibiting significant lean off from vertical, girdling roots, and/or woody buttress roots severed on one or more side of the root plate during landscape irrigation pipe trenching and/or sidewalk replacement could be categorized as "elevated risk" type trees that currently rate out as moderate or high risk of failure and impact to target. These include trees proposed by the project team to be retained, such as, but not limited to **trees #435 and #726.** The author has suggested that these trees be removed due to very poor overall condition ratings, as noted in the summary table above in this report.

There may be many additional trees that become "elevated risk" specimens due to root loss, root damage, and continued soil moisture deficit, during the actual construction of phases 1, 2, and 3 at the project over time. Use of heavy irrigation at the site starting now (2018) may be very beneficial in the long run in terms of reducing dieback and lengthening expected useful lifespan of the trees by providing good soil moisture to trees being retained.

5.0 Landscape & Irrigation Pipe Installation Concerns

Demolition of Existing Planters / Concerns:

Demolition of existing curbs, planting areas, asphalt parking stall surface materials, etc. to make way for new landscaping may cause significant or severe damage to the below ground portions of trees being retained such as shamel ash at the southwest end of the site along the south boundary of the former Sears parking lot (see sample blowup at right, showing proposed planting plan, street level, sheet P-0605, January, 2018 iteration).



WLCA's main concern in areas such as this involves demolition crew activities during removal of surface hardscape and deep curbs, which may be comingled with existing woody tree root systems. When pulling out the curbs and hardscape piece by piece, these roots may become tangled with the machinery bucket teeth and be pulled, ripped, or otherwise destroyed or damaged in the process. Therefore, an arborist monitor is suggested during demolition of any material within approximately 20 feet of a tree to be retained. As noted above in this report, we know that woody tree roots can extend laterally as far as 3x to 5x the canopy dripline distance from the trunk edge, which means that a 20 foot radius canopy tree may theoretically have roots extending as far as 60 to 100 feet radius out from trunk, even under asphalt, if there are no physical impediments to growth extension such as deep curbs or deep foundation footings.

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Irrigation Pipe Trenching / Concerns:

New irrigation pipe trenching will need to be performed in a manner that allows for maximum lateral woody root retention when within 20 horizontal feet of trees being retained. Toward this end, we will need to modify the standard (typ.) municipal code 18 inch depth of cover spec detail used in most jurisdictions for schedule 40 PVC piping, and instead use one of the following options:

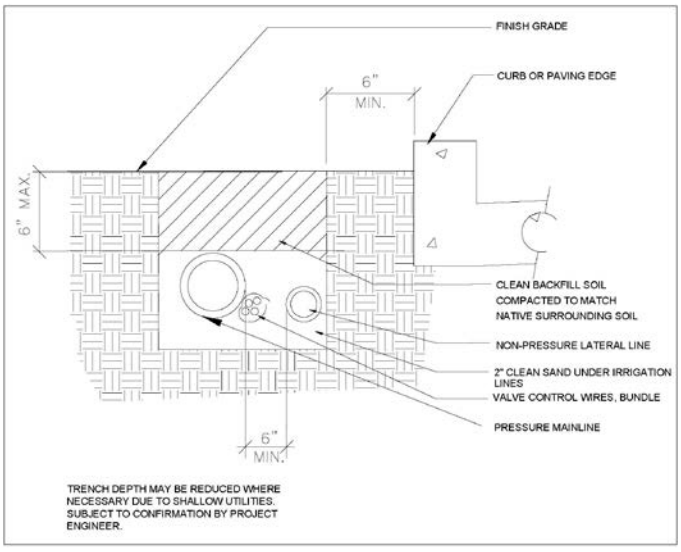
a. Option 1: "No Dig".

This irrigation type uses flexible ½" diameter tubing that starts at a PVC riser at 20 feet or farther from a tree trunk of a tree being retained, and proceeds to snake over the ground to locations within 20 feet of a trunk of an existing tree where irrigation is needed. Bubblers are either affixed to the tubing itself, or to offshoot ¼" diameter tubing with bubblers. There is also emitter line that is available in ½" diameter, with built in bubblers, though these tend to clog easily.

The no-dig option is optimal in terms of protecting lateral tree roots extending out from existing trees. However, vandalism is always a problem. The tubing can be buried slightly by covering it with a 4 inch thick layer of wood chip mulch to avoid some vandalism, but further measures may need to be taken to keep the tubing flush with the soil surface, such as pinning down the tubing with professional grade steel landscape U-pins, etc. See image at right.

b. Option 2: "Six Inch Cover" Rule:

Use a modified specification such as a setup where a maximum of six (6) inches of soil cover is specified as the maximum allowable vertical space between top of newly installed PVC irrigation pipe and original soil grade elevations, within 20 feet of a tree trunk. Below is a sample specification side cut detail showing this "shallow cut" type setup that was used for a recent project where new landscaping was to be installed within 20 feet of valuable cedar specimens being retained in Palo Alto, California.



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c. Option 3: UV-Resistant PVC Pipe:

Use a UV-resistant type flexible PVC pipe that can be laid directly over-grade in sunlight. This type of piping is typically the Salco brand flexible tubing “1/2 inch” diameter pipe that is already in use on the project site by the property owner for our innovative temporary irrigation system which supplies heavy water volume via high flow type ½” diameter flood bubblers on an AC timer operated system. A digital image of this system is included below for reference.

Above: Salco brand heavy duty UV-resistant flexible PVC irrigation tubing (1/2” diameter), with ½” diameter flood bubblers providing heavy flood flow when activated. This system is currently in use along our west perimeter road trees as temporary over-grade irrigation. The nice thing about this system is that it can be used for temporary and for permanent irrigation systems laid directly over-grade, due to its heavy duty thick-walled construction, and UV resistance rating.

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6.0 Tree Transplant Options

Trees currently proposed by the project team for "discretionary transplant" include six (6) protected-size[9] California sycamore specimens protected by City tree ordinance **#414, 415, 416, 260, 261, and #262**. These are larger trees, some of which exhibit defects such as mainstem lean off from vertical, and/or lopsided canopy form.

The trees are all currently in "fair" overall condition, except for tree #262 which is in "good" overall condition. Typically, trees rated in "fair" condition are not good candidates for transplant. Transplanting, depending on whether a tree is immediately moved and installed at another location, or is boxed up and held above ground with temporary irrigation for a number of months or years prior to permanent reinstallation at the transplant site, can cost on the order of $5,000 to $20,000 or more per tree for larger trees (e.g. a 15 inch diameter coast live oak). Thus, the costs of transplant are generally infeasible in terms of the cost of transplant versus appraised dollar values of the trees.

Typically, smaller diameter trees such as those 10 inches trunk diameter or less, in good overall condition (i.e. 70% overall condition rating or better), with upright, symmetrical branch and limb architecture are the best candidates for transplant.

Larger diameter trees, older trees, trees in poor or fair condition, and specimens with asymmetrical root systems, sloping root systems on a non-level slope, and those which exhibit asymmetrical above-ground branch architecture, are for the most part not good transplant candidates.

Given these conditions, the survivability rate of the proposed six (6) transplants noted above may be 25% to 45% at best. Contact tree movers for quotes and for further assessment of transplantability, such as Brightview Landscape Services (formerly known as Valley Crest Tree Care, with its extensive tree moving division).

The Cupertino planning division requirement that trees #67, 70, 97, 98, and #99 be transplanted is also being taken into consideration by the project team, and WLCA has drawn up a transplant standards report with best management practices (BMP) to guide the transplant effort. Locations for these five (5) required transplants are to be determined.

7.0 Assumptions and Limiting Conditions

Any legal description provided to the consultant/appraiser is assumed to be correct. Any titles and ownership to any property are assumed to be good and marketable. No responsibility is assumed for matters legal in character. Any and all property is appraised and evaluated as through free and clean, under responsible ownership and competent management.

It is assumed that any property is not in violation of any applicable codes, ordinance, statutes, or other government regulations.

Care has been taken to obtain all information from reliable sources. All data has been verified insofar as possible; however, the consultant/appraiser can neither guarantee nor be responsible for the accuracy of information provided by others.

[9] Per City of Cupertino tree ordinance.

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The consultant/appraiser shall not be required to give testimony or to attend court by reason of this report unless subsequent contractual arrangements are made, including payment of an additional fee for such services as described in the fee schedule and contract of engagement.

Unless required by law otherwise, the possession of this report or a copy thereof does not imply right of publication or use for any other purpose by any other than the person to whom it is addressed, without the prior expressed written or verbal consent of the consultant/appraiser.

Unless required by law otherwise, neither all nor any part of the contents of this report, nor copy thereof, shall be conveyed by anyone, including the client, to the public through advertising, public relations, news, sales, or other media, without the prior expressed conclusions, identity of the consultant/appraiser, or any reference to any professional society or institute or to any initiated designation conferred upon the consultant/appraiser as stated in his qualifications.

This report and any values expressed herein represent the opinion of the consultant/appraiser, and the consultant's/appraiser's fee is in no way contingent upon the reporting of a specified value, a stipulated result, the occurrence of a subsequent event, nor upon any finding to be reported.

Sketches, drawings, and photographs in this report, being intended for visual aids, are not necessarily to scale and should not be construed as engineering or architectural reports or surveys unless expressed otherwise. The reproduction of any information generated by engineers, architects, or other consultants on any sketches, drawings, or photographs is for the express purpose of coordination and ease of reference only. Inclusion of said information on any drawings or other documents does not constitute a representation by Walter Levison to the sufficiency or accuracy of said information.

Unless expressed otherwise:
information contained in this report covers only those items that were examined and reflects the conditions of those items at the time of inspection; and the inspection is limited to visual examination of accessible items without dissection, excavation, probing, or coring. There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the plants or property in question may not arise in the future.

Loss or alteration of any part of this report invalidates the entire report.

Arborist Disclosure Statement:

Arborists are tree specialists who use their education, knowledge, training, and experience to examine trees, recommend measures to enhance the beauty and health of trees, and attempt to reduce the risk of living near trees. Clients may choose to accept or disregard the recommendations of the arborist, or to seek additional advice.

Arborists cannot detect every condition that could possibly lead to the structural failure of a tree. Tree are living organisms that fail in ways we do not fully understand. Conditions are often hidden within trees and below ground. Arborist cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time. Likewise, remedial treatments, like any medicine, cannot be guaranteed.

Treatment, pruning, and removal of trees may involve considerations beyond the scope of the arborist's services such as property boundaries, property ownership, site lines, disputes

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between neighbors, and other issues. Arborists cannot take such considerations into account unless complete and accurate information is disclosed to the arborist. An arborist should then be expected to reasonably rely upon the completeness and accuracy of the information provided.

Trees can be managed, but they cannot be controlled. To live near trees is to accept some degree of risk. The only way to eliminate all risk associated with trees is to eliminate the trees.

8.0 Certification

I hereby certify that all the statements of fact in this report are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

Walter Levison, Consulting Arborist

DIGITAL BADGES (LIVE LINKS):

ISA CERTIFIED ARBORIST CREDENTIAL:
https://certificates.isa-arbor.com/f1918723-df46-48cc-ace2-c12625530fec?record_view=true

ISA TREE RISK ASSESSMENT QUALIFIED (TRAQ):
https://certificates.isa-arbor.com/d180515f-ab75-440b-9c66-106005e3cf10?record_view=true#gs.hpb30w

9.0 Digital Images Archived 2015 Onward (WLCA)

Tree #	Image	Tree #	Image
285 to 289 to be removed, looking northeast		277 to 284, looking north	
261 and 262 to be transplanted, looking south		Sycamore 260 initially proposed by team to be transplanted. WLCA suggests removal of tree, or redesign the plan to work around it.	

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Tree #	Image	Tree #	Image
414, 415, and 416 to be transplanted per current proposed plan.		416 initially proposed by the project team to be transplanted (WLCA suggests removal of the tree, or redesign of the project to work around it)	
426 to 444 along west side of Alexander's Steakhouse Some of these trees are suggested by WLCA to be removed due to safety (risk) concerns		Close-up of the roots severed along the west side of tree 438, (suggested by WLCA to be removed), during sidewalk replacement.	

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Tree #	Image	Tree #	Image
Sidewalk heave (vertical displacement) along the east side of tree 431 to be retained. Infrastructure such as this with roots likely travelling under the hardscape should be left in-situ instead of being removed (if possible), since severe root loss could occur if the walk were rebuilt. Use diamond grinding to level.		Redwoods 423, 424, 425 to be removed at the steakhouse parking lot.	
Italian stone pines in JC Penny parking lot, looking south.		Example of redwoods and ash specimens 332, 333, and 335 in very poor condition due to soil moisture deficit, at the JC Penny parking lot.	

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Tree #	Image	Tree #	Image
Trees 338 to 358 to be removed along the east side of the JC Penny parking lot.		Looking southward along Perimeter Road East. Chinese elms and other screening trees 522 to 541 are shown in this image, and will be retained along the roadway. The property behind the trees is owned by Apple, Inc.	
Redwoods 500, 501, and 502 are dead in the southeast corner of the JC Penny parking lot area. These trees are planned to be removed.		In contrast to dead redwoods 500, 501, and 502 shown in the image at left, redwoods 505 and 510 at right are in decent condition just 30 or 40 feet west. The trees are to be removed.	

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Tree #	Image	Tree #	Image
Shamel ash and redwoods 396 to 404 to be removed at the west side of JC Penny parking lot		Shamel ash 452 to 457, most of which are to be removed from the east side of N. Wolfe Rd.	
Close-up of tree 267 to be removed, which exhibits a severe girdling root issue due to planting strip width which severely restricted normal lateral root extension from the trunk		Grove of redwoods 204 to 218, most of which are to be removed just west of Dynasty Restaurant.	

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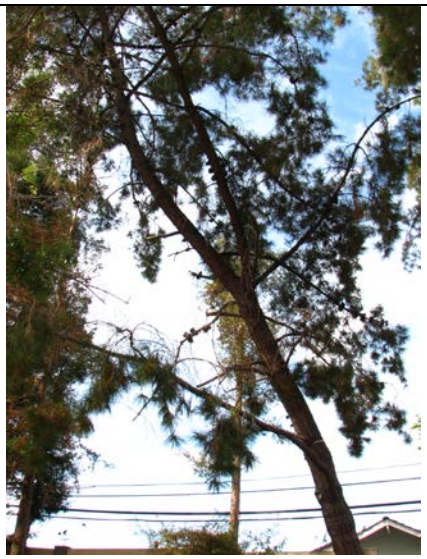
Tree #	Image	Tree #	Image
Looking south down west perimeter road, at rows starting with tree 240 on left (row to be removed), and 704 at right (row to be retained)		Redwood specimens along the west side of west perimeter road are suffering severely from soil moisture deficit, and are generally declining or dying	
Monterey pine 726 rates out with a probable risk of failure due to lean, girdling roots, etc. This tree is in WLCA's suggested removal list.		Looking south along west perimeter road, again with trees on left to be removed (tree 165 southward), and trees on right to be retained (tree 772 southward)	

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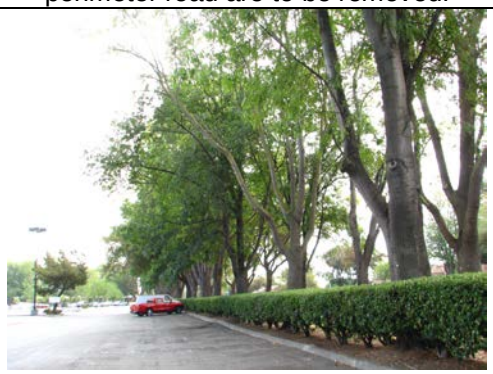
Tree #	Image	Tree #	Image
The dense screen along the west side of west perimeter road as shown here near tree 771 is in danger of dying due to soil moisture deficit. Replacement of these high water-use trees with drought tolerant evergreen species is a viable option.			 Looking south along west perimeter road. The trees at right are trees 752 southward, and 852 southward, and are currently proposed to be retained. Trees along the left side (east side) of west perimeter road are to be removed.
Shamel ash trees 8 and 9 to be removed at the southwest corner of the project site. Note curb and asphalt displacement from root growth. When this hardscape is removed and replaced near a tree, severe root loss and root damage occurs, resulting in tree decline.			 Looking east at shamel ash specimens 9 through 36, many of which are to be retained along this south border of the site. Again, removal of or alteration of existing curb and asphalt materials could cause severe root damage to these already drought-stressed specimens, resulting in further tree decline or death.

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Tree #	Image	Tree #	Image
Looking southeast at shamel ash 23 through 35, many of which are proposed to be retained.		R to L: Looking southeast at shamel ash 42 through 50 to be retained at the southeast property corner.	
Monterey pine 51 at the southeast corner of the project site. This tree was a high risk of failure and impact to site users, and was removed from the landscape for safety purposes.		Looking north at shamel ash 55, 57, 59, 61, 63, 65 to be retained along the west side of North Wolfe Road.	
Southern magnolias 1106, 1107, 1108 proposed by the project team to be removed from the median on North Wolfe Road, are in decline due to severe soil moisture deficit.		Looking north at shamel ash 102, 103, 104, and 105 to be retained. Note canopy dieback in the form of live twig density decline.	

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Tree #	Image	Tree #	Image
Looking northeast at shamel ash 461 to 475, most of which are to be retained along the east side of North Wolfe Rd.		Long-lived, drought-tolerant, strong-wooded oak species like these two existing holly oaks 97 and 98 to be removed at the project site are examples of trees appropriate for new landscaping.	
BELOW: **IMAGES FROM FOLLOW-UP SITE ASSESSMENT ON 12/8/2017**			
Looking north along N. Wolfe Rd. The shamel ashes, although they are referred to as "evergreen ash", actually go deciduous to some degree, with leaf drop ranging from zero to +/- 50% of the entire foliar canopy.		Fruits are borne as long clusters of "keys" or "samaras" on evergreen ash specimens, extending a great distance along a stem, making it relatively difficult to determine from the ground whether bare stems are dead or are simply going through normal leaf drop and fruit drop in Fall.	 Note the short whispy stems that remain behind on the fruit branch clusters after the evergreen ash samaras drop to the ground. These are an indication that the woody stems in this image are alive and are actually associated with a recently-dropped fruit cluster, rather than representing a dead or dying tissue region of the canopy. In some cases, there are both dead stems and bare fruit branches mingled together throughout an evergreen ash, making determination of overall condition rating very difficult during the Fall/Winter period.

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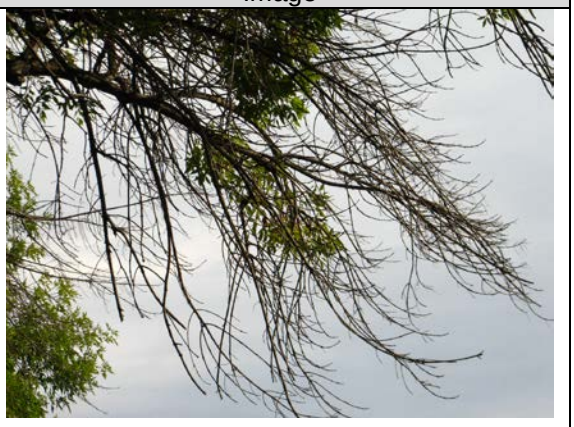
Tree #	Image	Tree #	Image
Looking east down Stevens Creek Blvd. The evergreen ash specimens along this south boundary section of the site exhibit both bare areas where fruit clusters dropped, and dead stems scattered throughout the trees, simultaneously.		A combination of dead stems and live bare fruit cluster branches extended south over Stevens Creek Blvd. (a close-up of an evergreen ash specimen in the center of the left-hand image).	

10.0 Tree Maintenance Recommendations

The following matrix shows all tree maintenance recommendations by WLCA for those trees located south of the "alternate lot west" area.

Important Notes When Reviewing Table 10.0 Below:

- Trees being removed as shown on the proposed tree disposition plan sheet P-0602B are shown in parentheses in the following table (i.e. the 484 trees noted by tag number in report summary table 1.0, row 4).
- Trees recommended to be removed by WLCA due to very poor condition, extreme lean, etc. are shown in parentheses in the following table (i.e. the one-hundred thirty-six (136) WLCA-recommended removals noted by tag number in report summary table 1.0, row 5).

TABLE 10.0

Line Number	Maintenance Action Suggested	Tree Tag Number (WLCA-recommended removals noted in parentheses)	Phase
1	Branch endweight reduction pruning on lengthy sections of canopy	(#8, 9) #104 #414 (transplant specimen)	Prior to phase 1 demolition.

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Line Number	Maintenance Action Suggested	Tree Tag Number (WLCA-recommended removals noted in parentheses)	Phase
2	Arborist cable and/or bracing installation per ANSI A300 support system standards	(#443)	Prior to phase 1 demolition.
3	Verify Spring, 2018 leafout of tree. If no leafout occurs, then remove tree as “dead”	#(518), 554	
4	Arborist should monitor tree for stability and for declines in vigor. (Pre-project trenching or other pre-demo site prep work that occurred in 2015 resulted in root damage to many of these trees, the impacts of which may have been significant or severe)	(#225, 226, 228), 282, 283, (285), (454), (459), 460, 463, 465, 468, 469, 473, 475, (695), 737, (744), 865, 1115, 1122, 1123, 1124, 1125.	2x/year.
5	Remove one of two existing codominant mainstems at the fork, by an ISA Certified Arborist, per ANSI A300 pruning standards.	(#246)	Prior to phase 1 demolition.
6	WLCA Field Update 1/9/2018: Remove tree as soon as possible (now) as an “imminent risk of failure and impact”. Tree mainstem fork is actively splitting with visible separation of the two mainstems.	(#95)	As soon as possible.

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Line Number	Maintenance Action Suggested	Tree Tag Number (WLCA-recommended removals noted in parentheses)	Phase
7	Commence heavy weekly irrigation over root zone, and continue through winter. Rate of approx. 25 to 100 gallons per tree per week, year-round. Consider use of aerial based sprinkler systems and/or aerial based misting systems to be installed in redwood specimens.	(All trees to remain)	As soon as possible, continuing 1x/week minimum, year-round.
8	Add 4-inch thick layer of chipper truck type wood chips over soil to reduce irrigation water evaporation. Pull mulch out at least 6-inches to 12-inches away from trunk edges to avoid moisture retention at root crown.	(All trees to remain)	Prior to start heavy periodic irrigation.
9	Remove electrical utility company guy wire and strapping that is surrounding the trunk.	#669	Call local utility representatives to schedule this tree for removal. Currently in 10% overall condition as of 1/9/2018.

11.0 Tree Protection Requirements & Recommendations

1. City of Cupertino SB 35 Planning Approval 9/15/2019 Condition of Approval Item #32:

   32. TREE PROTECTION

   As part of the demolition or building permit drawings, a tree protection plan shall be prepared by a certified arborist for the trees to be retained. This tree protection plan shall adhere to the recommendations of the City's consulting arborist. In addition, the following measures shall be added to the protection plan:

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a. For trees on private property to be retained, chain link fencing and other root protection shall be installed around the dripline of the tree prior to any project site work.
b. No parking or vehicle traffic shall be allowed under root zones, unless using buffers approved by the Project Arborist.
c. No trenching within the critical root zone area is allowed. If trenching is needed in the vicinity of trees to be retained, the City's consulting arborist shall be consulted before any trenching or root cutting beneath the dripline of the tree.
d. Wood chip mulch shall be evenly spread inside the tree protection fence to a four-inch depth.
e. Tree protection conditions shall be posted on the tree protection barriers.
f. Retained trees shall be watered to maintain them in good health.
g. A covenant on the property shall be recorded that identifies all the protected trees, prior to final occupancy.

The tree protection measures shall be inspected and approved by the certified arborist prior to issuance of building permits. The City's consulting arborist shall inspect the trees to be retained and/or transplanted and shall provide reviews prior to issuance of demolition, grading or building permits. A report ascertaining the good health of the trees mentioned above shall be provided prior to issuance of final occupancy.

For trees within the public right-of-way which are subject to removal or new trees proposed for planting, the applicant shall secure an encroachment permit from the City.

2. City of Cupertino Standard Project Requirement Item 5.1 / FENCING AND ROOT PROTECTION:

Chain link fencing shall be erected using the materials specified below in recommendation table line #1.

Fencing shall be laterally offset from tree trunk edges, with fence runs along the curb edges and planter area edges, where possible, per Michael Bench , Contract City Arborist letter dated 6/7/2019.

Trunk wrap protection shall be per the below recommendation table line #2.

3. City of Cupertino Standard Project Requirement Item 5.6 / IRRIGATION:

"Retained trees shall be watered to maintain them in good health".

Toward this end, the project arborist will advise the project team on setting up timer-operated high-flow type temporary irrigation system(s) laid over-grade, using Salco UV-resistant flexible PVC tubing and/or equivalent materials to supplement soil moisture year-round. Bubblers shall be ½ inch diameter high-flow type flood bubblers, with "1GPM" (1 gallon per minute), or "2GPM" (2 gallons per minute) output each.

Volume of water to be applied: to be determined.

Frequency and duration of irrigation events: to be determined.

Locations of bubblers: to be determined.

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4. WLCA Recommendations Matrix:

Line Number	Tree Protection Action	Sample Image	Tree Tag Numbers
1	ROOT PROTECTION FENCE 5-foot high chain link, hung on 7-foot long 2-inch diameter iron tube posts driven 24- inches into the ground, at max. 6-foot spacing on-center. Alternative fencing: Chain link fence panels set on moveable concrete footings.	 	The first grouping below is the initial list of all 435 trees to be retained per tree disposition sheet P-0602B revision date 3/23/2022, including the 105 trees proposed by the author to be removed due to very poor condition ratings and/or elevated risk of failure and impact. The second grouping below is a separate list of the 105 trees suggested to be removed by WLCA that are either dead or in very poor overall condition (which may end up being retained and protected in-place, at least temporarily, in order to maintain screening benefits during project construction, until final phase landscape renovation work commences). #10, 12, (14-24), (28-30), (32-35), (41-50), (53-62), 64, (71-87), (102-105), 221, 275, (281-283), (428-429), (431-433), (435-437), 444, 455, 460, 461, 463, 465, (468-475), 519, 522, (524-547), (549-550),(552-564), (567-583), (585-683), (704-708), (710-719), 721, 722, (724-727), (729-730), (734-738), (740-743), (746-770), (772-875), (1114-1125), (1127-1233), (1235-1243), 1245. #281, 283, 435, 440, 441, 467, 468, 519, 522, 536, 547, 555, 564, 567, 583, 592, 597, 598, (603-608), 610, (628-631), (633-637), 639, 646, 648, 653, 654, (659-661), (669-672), 675, 677, 683, (704-708), 711, 714, (716-719), 721, 722, (724-727), 735, 736, 758, 763, 764, 768, 777, 780, 786, 787, 794, 804, (807-817), 821, 825, 827, 834, 836, 840, 843, 846, 852, (853-856), 867, 873, 1119.

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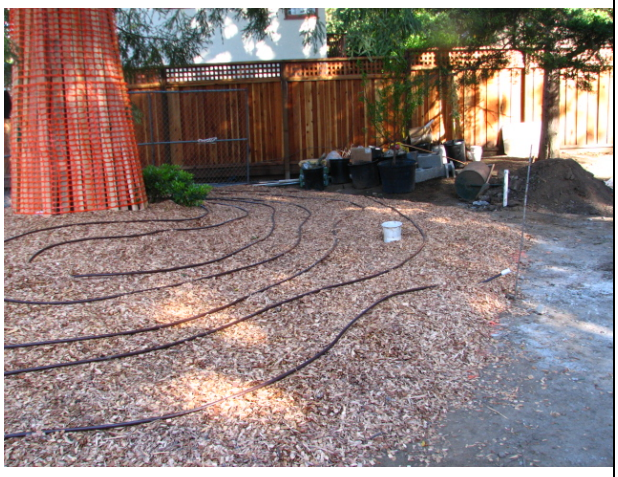
Line Number	Tree Protection Action	Sample Image	Tree Tag Numbers
2	TRUNK BUFFER 20 wraps of orange plastic with wood boards overlaid and duct taped in place around the wood. Use an entire roll of orange plastic snow fencing wrap for each single tree being retained.		Wrap all trees being retained that are directly adjacent to construction work (construction crew can exclude any trees being retained that are located behind “companion trees”, where the companion trees act as de-facto barriers to block construction work contact with the mainstem (trunk).
3	WOOD CHIP MULCH 4 inch thick layer of chipper truck type wood chips (not bark chips). Place over entire open soil root zone areas, and pull 6 to 12 inches away from tree trunk edges.		Apply wood chips where possible around all open soil root systems of trees to remain.

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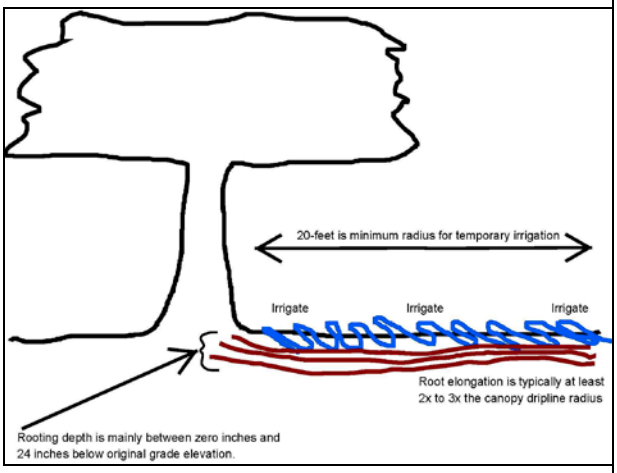
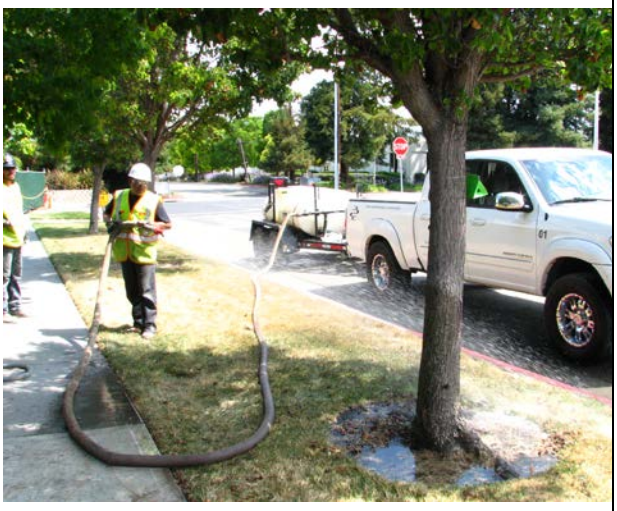
Line Number	Tree Protection Action	Sample Image	Tree Tag Numbers
4	IRRIGATION TEMPORARY Heavy 2x/week (+/-) 20 to 100 gallons per tree, per week, minimum, year-round (volume depends on tree species, age, diameter, tree spacing, root grafting, evaporation loss, etc.) Use over-grade systems only, such as PVC piping or flexible Salco or equivalent UV-resistant flexible PVC set over the ground (image above right), or hand-watering via tow-behind tank and spray apparatus with fire hose (image below right). Place bubblers as far as possible offset from the tree trunks to irrigate lateral roots that may be extended as far as 50 horizontal feet or more from the trunk of each tree. For bubbler systems, use only 1 gallon per minute or 2 gallon per minute high-flow type flood bubblers.	  	Where possible, over all open soil root zones of all trees to remain. Note that roots grow laterally outward from the trunk of a tree to far beyond the canopy dripline, at sites where there is soil root zone available for the roots to do so. Therefore, irrigation is often very beneficial when performed over open soil areas that are far from the trunk edges of trees. NOTE: The irrigation regime indicated at left is <u>not</u> appropriate for native, dry-summer climate type tree species such as coast live oaks. The regime at left is intended to be utilized only for tree species whose vigor is directly dependent on year-round supplemental irrigation water application, such as project site coast redwood specimens and evergreen ash specimens.

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Line Number	Tree Protection Action	Sample Image	Tree Tag Numbers
5	ROOT PRUNING Back-dig around exposed roots, and prune at right angle to root growth direction, removing all broken, shattered, or otherwise damaged sections of roots. Use only blades with large teeth that are specifically labelled as “pruning” blades or “green wood” blades (see image at right).	 	Where applicable during excavation, trenching, grading, etc.

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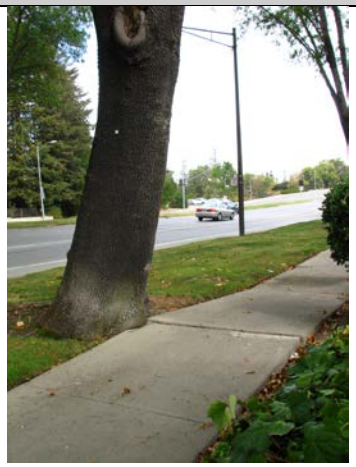
Line Number	Tree Protection Action	Sample Image	Tree Tag Numbers
6	HARDSCAPE TO REMAIN OR USE RUBBER PAVER PANELS Option 1: Allow existing hardscape areas to remain where possible, to avoid root loss and root damage (see image at right). Grind down areas where slab displacement has occurred, using a diamond saw. Option 2: Replace using screed and rubber sidewalk components where possible, to allow for future upward displacement "bend" of the material (see image at right of Stanford University rubber sidewalk project installed by McGuire & Hester). Option 3: Pin down a triaxial geogrid such as Tensar TriAx TX5 geogrid, laid directly over the soil and roots, and build up the baserock and walkway over that geogrid (see image at right from Serra Mall project, Stanford University). Arborist monitoring required during demolition within 20 feet of trees.	  	(Various, to be determined).

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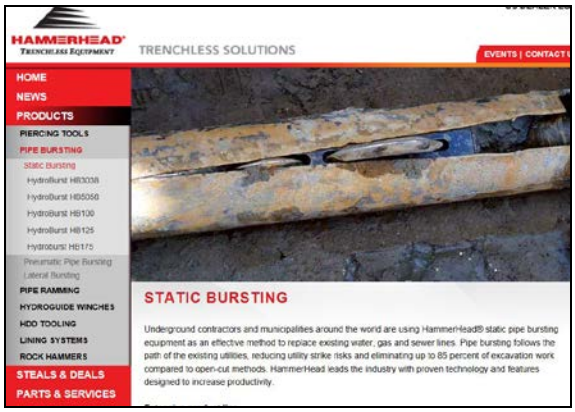
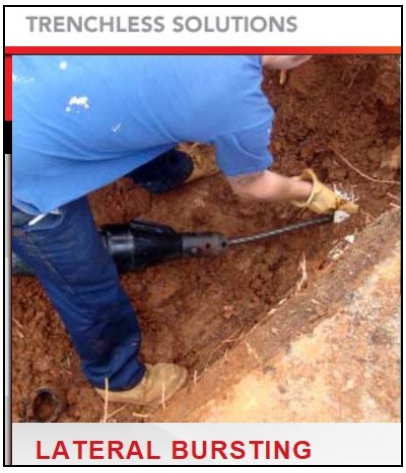
Line Number	Tree Protection Action	Sample Image	Tree Tag Numbers
7	TRENCHLESS SOLUTIONS FOR UTILITY UPGRADES For all trenching, including utilities, drain pipes, downspout drain lines, etc., for all items to be installed within 20 feet of trunks of trees being retained, the following are viable methods used in the industry to go "trenchless" without having to cut through lateral woody tree root systems (see images at right). Solutions include: A: Directional bore (see image at right). B: Static pipe bursting, which allows for pipe diameter increases (see image at right). C: Pull-through pipe burst ("lateral bursting") using a pull-through "pig" (see image at right, courtesy of HTEC).	 Above: Directional bore near tree being retained, Hetch Hetchy system water delivery pipe (image copyright WLCA 2017).  Above: Static bursting for pipe diameter upgrade. Photo courtesy of Hammerhead Trenchless Equipment Co. (HTEC). 	(Various, to be determined). For areas where these items are to be aligned at distances greater than 20 linear feet offset (radius) from trunk edges of trees being retained, standard trenching methods and materials can be used (e.g. bucket excavator, Ditch Witch trenching machines, etc.). Trenchless solution equipment is available locally in the San Francisco Bay Area from: **Ditch Witch Bay Area Office** **8240 Enterprise Drive** **Newark, CA** **Phone: (510) 657-5722**

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Line Number	Tree Protection Action	Sample Image	Tree Tag Numbers
8	IRRIGATION PERMANENT Use no-dig over-grade tubing, or max. of "6 inches of cover within 20 feet of trees" as a callout specification on all plans. There are two methods that can be utilized for these types of situations: a: Standard flex tubing laid over grade, with either built-in emitters, or with a minimum of two (2) high-flow type ½" diameter adjustable flood bubblers that emit up to 2 gallons per minute flow rate, set around each single newly installed tree (see images at right). b: UV-resistant "UVR" flexible PVC piping. An example of this is Salco model #PVC-AR-050IPS. "1/2 inch" diameter. This material can be laid directly over-grade in full sun, and the thick walls of the material allow it to be much more vandal-resistant than standard thin-walled flexible irrigation tubing. See photo at right.	 	  (Various, to be determined). For areas where irrigation pipes are to be aligned at distances greater than 20 linear feet offset (radius) from trunk edges of trees being retained, standard solid PVC irrigation pipe trenching can be specified (e.g. 18 inches min. cover depth, etc.) For new tree installations, two (2) high-flow type bubblers are set directly over the root ball as in the image above.

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12.0 Attached, Tree Data Charts, Updated 3/23/2022 (WLCA)

13.0 Attached, Tree Disposition Plan #P-0602B Revised 3/23/2022 (Olin Studio)

14.0 Attached, Tree Fact Sheet (Coast Redwood)

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The Rise Project / Tree Data by Walter Levison, Consulting Arborist (WLCA)
Revised 3/23/2022 by WLCA

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 22.0" multi-trunk for specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
1	X			13.0						13.0		Shamel ash	*Fraxinus uhdei*	30/18	20/30	25% very poor	poor			6				11	X			Removed as of Jan, 2020.
2	X			10.9						10.9		Shamel ash	*Fraxinus uhdei*	25/20	50/35	40% poor	moderate			7								Removed as of Jan, 2020.
3	X			13.9						13.9		Shamel ash	*Fraxinus uhdei*	30/25	60/45	50% fair	moderate											Removed as of Jan, 2020.
4	X			16.6						16.6		Shamel ash	*Fraxinus uhdei*	35/30	55/60	57% fair	moderate											Removed as of Jan, 2020.
5	X			22.0						22.0		Shamel ash	*Fraxinus uhdei*	45/45	75/60	66% fair	good			12								Removed as of Jan, 2020.
6	X			13.3						13.3		Shamel ash	*Fraxinus uhdei*	35/15	50/35	43% poor	moderate											Removed as of Jan, 2020.
7	X			27.6						27.6		Monterey pine	*Pinus radiata*	55/30	65/65	65% fair	moderate											Removed as of Jan, 2020.
8	X			19.9						19.9		Shamel ash	*Fraxinus uhdei*	55/30	70/60	64% fair	moderate	W									Needs endweight reduction pruning	Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 40% or "poor".
9	X			26.2						26.2		Shamel ash	*Fraxinus uhdei*	55/40	60/50	55% fair	poor to mod					GR					Needs endweight reduction pruning	
10				27.0						27.0		Shamel ash	*Fraxinus uhdei*	55/30	60/50	55% fair	poor to mod	N										Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 40% or "poor".
11	X			28.8						28.8		Shamel ash	*Fraxinus uhdei*	55/30	60/60	60% fair	moderate	S				GR						Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 37% or "poor".
12				20.2						20.2		Shamel ash	*Fraxinus uhdei*	55/25	55/50	53% fair	poor to mod	E										Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 25% or "very poor". Trees in very poor condition are generally recommended to be removed
13	X			22.2						22.2		Shamel ash	*Fraxinus uhdei*	55/25	60/50	55% fair	poor to mod	S										Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 37% or "poor".

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-trunk for most specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Main Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
14				24.7						24.7		Shamel ash	*Fraxinus uhdei*	60/28	60/60	60% fair	moderate	N											Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 40% or "poor".
15				24.6						24.6		Shamel ash	*Fraxinus uhdei*	60/30	60/45	55% fair	moderate	N											
16				20.6						20.6		Shamel ash	*Fraxinus uhdei*	55/30	55/55	55% fair	moderate	N											Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 42% or "poor".
17				17.7						17.7		Shamel ash	*Fraxinus uhdei*	45/25	0/0	0% dead (not verified)		S											Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 35% or "poor".
18				31.6						31.6		Shamel ash	*Fraxinus uhdei*	60/30	65/48	59% fair	moderate	N					GR		10 to 12				Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 48% or "poor".
19				18.2						18.2		Shamel ash	*Fraxinus uhdei*	45/25	60/50	55% fair	moderate	S											Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 35% or "poor".
20				21.5						21.5		Shamel ash	*Fraxinus uhdei*	50/35	55/55	55% fair	poor to mod												
21				17.0						17.0		Shamel ash	*Fraxinus uhdei*	35/20	50/60	55% fair	moderate	S					GR						
22				32.3						32.3		Shamel ash	*Fraxinus uhdei*	55/50	75/65	70% good	good	NE											
23				24.5						24.5		Shamel ash	*Fraxinus uhdei*	55/30	65/40	50% fair	moderate	S		30			GR						Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 45% or "poor".
24				29.7						29.7		Shamel ash	*Fraxinus uhdei*	55/40	65/50	60% fair	moderate	N					GR						
25	X			20.7						20.7		Shamel ash	*Fraxinus uhdei*	50/30	55/45	50% fair	moderate	SE		30			serious GR						Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 50% or "fair".
26	X			20.2						20.2		Shamel ash	*Fraxinus uhdei*	35/35	50/50	50% fair	moderate	N					GR						Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 45% or "poor".

The Rise Project / Tree Data by Walter Levison, Consulting Arborist (WLCA)
Revised 3/23/2022 by WLCA

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-trunk or specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Main Trunks with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
27	X			25.8						25.8		Shamel ash	*Fraxinus uhdei*	55/35	65/50	57% fair	moderate	S											Tree was significantly damaged by a City-hired contractor performing directional bore and other electrical utility related work along Stevens Creek Blvd in June and July, 2019. The crew somehow scarred the lower trunk of this tree (see image in WLCA's July, 2019 inspection report). However, the tree is slated for removal anyway per the Vallco project team tree disposition sheet.
28				36.9						36.9		Shamel ash	*Fraxinus uhdei*	60/40	75/45	60% fair	good	N					GR						Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 45% or "poor".
29				32.3						32.3		Shamel ash	*Fraxinus uhdei*	60/35	70/50	60% fair	good	S					GR						Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 50% or "fair".
30				29.5						29.5		Shamel ash	*Fraxinus uhdei*	50/40	60/55	59% fair	good	NE											
31	X			6.3						6.3		Shamel ash	*Fraxinus uhdei*	18/10	40/30	35% poor	moderate	S					BRC					Stunted	Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 25% or "very poor". Trees in very poor overall condition are generally considered good candidates for removal from the landscape, since their ability
32				17.9						17.9		Shamel ash	*Fraxinus uhdei*	55/35	60/40	50% fair	moderate	N											
33				26.0						26.0		Shamel ash	*Fraxinus uhdei*	55/35	60/50	57% fair	moderate						GR					Diameter estimated.	Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 40% or "poor".
34				24.0						24.0		Shamel ash	*Fraxinus uhdei*	50/25	50/40	45% poor	?	S							9			Tree out of leaf. Condition estimated.	Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 40% or "poor".
35				23.3						23.3		Shamel ash	*Fraxinus uhdei*	55/25	60/55	57% fair	moderate	N											
36	X			26.6						26.6		Shamel ash	*Fraxinus uhdei*	55/45	65/60	63% fair	moderate												
37	X			32.9						32.9		Shamel ash	*Fraxinus uhdei*	60/35	70/60	65% fair	good	N											

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-trunk for most specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Main Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
38	X			18.2						18.2		Shamel ash	*Fraxinus uhdei*	50/25	65/50	56% fair	moderate	S											
39	X			23.0						23.0		Shamel ash	*Fraxinus uhdei*	55/40	65/50	57% fair	good	N					GR				Diameter estimated.	Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 45% or "poor".
40	X			28.2						28.2		Shamel ash	*Fraxinus uhdei*	55/45	60/45	52% fair	moderate	S		25		GR						Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 35% or "poor".
41				18.3						18.3		Shamel ash	*Fraxinus uhdei*	50/20	60/50	55% fair	moderate	NE											
42				6.5						6.5		Shamel ash	*Fraxinus uhdei*	20/8	30/25	28% very poor	poor	S	S									Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 35% or "poor".
43				24.0						24.0		Shamel ash	*Fraxinus uhdei*	55/30	65/60	63% fair	good	N				GR						Diameter estimated.	
44				30.7						30.7		Shamel ash	*Fraxinus uhdei*	50/35	65/45	55% fair	good	S				GR							
45				18.0						18.0		Shamel ash	*Fraxinus uhdei*	50/20	50/50	50% fair	poor to mod	N										Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 40% or "poor".
46				30.5						30.5		Shamel ash	*Fraxinus uhdei*	55/35	65/45	55% fair	good	S				GR		7 to 9					
47				26.0						26.0		Shamel ash	*Fraxinus uhdei*	55/30	70/60	67% fair	good	N									Diameter estimated.	
48				31.6						31.6		Shamel ash	*Fraxinus uhdei*	55/30	60/55	57% fair	mod to good	S				GR						Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 35% or "poor".
49				24.5						24.5		Shamel ash	*Fraxinus uhdei*	55/25	55/55	55% fair	moderate	N											
50				39.5						39.5		Shamel ash	*Fraxinus uhdei*	55/40	55/55	55% fair	moderate	E				serious GR						Tree appears to be declining in live twig density due to prolonged Bay Area drought conditions. Current condition is approximately 35% or "poor".

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Mainstems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
51																												TREE REMOVED.
52																												TREE REMOVED.
53				16.9						16.9		Shamel ash	*Fraxinus uhdei*	45/25	65/60	63% fair	good	E	E									60% Fair. Same condition as previously noted in past years.
54				31.6						31.6		Shamel ash	*Fraxinus uhdei*	55/40	60/50	55% fair	moderate	W				GR						Tree appears to be declining from prolonged Bay Area drought conditions. Current condition is approximately 35% or "poor".
55				21.8						21.8		Shamel ash	*Fraxinus uhdei*	50/25	65/60	60% fair	good											
56				18.3						18.3		Shamel ash	*Fraxinus uhdei*	50/20	55/55	55% fair	moderate	W										Tree declining moderately. Overall condition is now roughly 50% (Fair).
57				19.5						19.5		Shamel ash	*Fraxinus uhdei*	55/30	65/60	63% fair	good	E										Gravel in this area from PG&E gas pipe line replacement in December, 2020 indicates that root loss to some degree occurred during pipe-related excavation.
58				26.4						26.4		Shamel ash	*Fraxinus uhdei*	55/30	60/55	58% fair	moderate	W										Gravel in this area from PG&E gas pipe line replacement in December, 2020 indicates that root loss to some degree occurred during pipe-related excavation.
59				33.8						33.8		Shamel ash	*Fraxinus uhdei*	55/30	60/50	55% fair	good	E						11				Gravel in this area from PG&E gas pipe line replacement in December, 2020 indicates that root loss to some degree occurred during pipe-related excavation.
60				24.9						24.9		Shamel ash	*Fraxinus uhdei*	45/35	65/55	60% fair	good	W										
61				24.4						24.4		Shamel ash	*Fraxinus uhdei*	55/35	60/60	60% fair	moderate	E										
62				27.9						27.9		Shamel ash	*Fraxinus uhdei*	55/25	50/50	50% fair	poor to mod	W										
63	X			31.5						31.5		Shamel ash	*Fraxinus uhdei*	55/40	70/65	68% fair	good											

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64				20.8						20.8		Shamel ash	*Fraxinus uhdei*	40/25	50/50	50% fair	poor to mod	W											
65	X			20.7						20.7		Shamel ash	*Fraxinus uhdei*	50/25	65/53	55% fair	good	E					GR						
66	X			37.8						37.8		Shamel ash	*Fraxinus uhdei*	60/25	70/63	68% fair	good	W											
67	X			18.3						18.3		Shamel ash	*Fraxinus uhdei*	55/25	65/65	65% fair	moderate	W											
68	X			41.0						41.0		Shamel ash	*Fraxinus uhdei*	55/50	60/55	58% fair	mod to good	NW							possible bark inclusion issues				
69		to transplant		19.4						19.4		holly oak	*Quercus ilex*	45/20	60/60	60% fair	moderate	W											70% overall condition "good".
70		to transplant		13.2						13.2		holly oak	*Quercus ilex*	25/20	60/60	60% fair	moderate	W											65% overall condition "fair".
71				40.8						40.8		Shamel ash	*Fraxinus uhdei*	60/45	65/55	60% fair	good								10				
72				24.3						24.3		Shamel ash	*Fraxinus uhdei*	55/25	55/50	50% fair	moderate	E					serious GR						
73				26.2						26.2		Shamel ash	*Fraxinus uhdei*	55/35	50/50	50% fair	poor	W							16				
74				28.0						28.0		Shamel ash	*Fraxinus uhdei*	55/30	60/60	60% fair	moderate	E											
75				21.4						21.4		Shamel ash	*Fraxinus uhdei*	40/25	50/50	50% fair	moderate	W											
76				20.2						20.2		Shamel ash	*Fraxinus uhdei*	50/18	40/50	47% poor	poor to mod	E											

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77				15.8						15.8		Shamel ash	*Fraxinus uhdei*	45/15	40/30	35% poor	poor	W											
78				17.0						17.0		Shamel ash	*Fraxinus uhdei*	55/35	65/40	50% fair	moderate						serious GR						
79				21.2						21.2		Shamel ash	*Fraxinus uhdei*	55/25	55/55	55% fair	poor to mod	W					GR						
80				28.2						28.2		Shamel ash	*Fraxinus uhdei*	55/35	60/50	55% fair	moderate	E											
81				24.7						24.7		Shamel ash	*Fraxinus uhdei*	55/35	55/50	53% fair	moderate	W											
82				19.0						19.0		Shamel ash	*Fraxinus uhdei*	55/20	45/50	49% poor	poor to mod	E											
83				17.8						17.8		Shamel ash	*Fraxinus uhdei*	55/30	60/55	57% fair	moderate	W											
84				21.2						21.2		Shamel ash	*Fraxinus uhdei*	35/30	55/55	55% fair	moderate	E											
85				20.3						20.3		Shamel ash	*Fraxinus uhdei*	55/30	65/60	65% fair	moderate to good	W											
86				23.2						23.2		Shamel ash	*Fraxinus uhdei*	55/35	65/50	58% fair	good						GR						
87				22.8						22.8		Shamel ash	*Fraxinus uhdei*	55/35	65/55	60% fair	mod to good	NW											
88	X			5.9	5.0	4.9				15.8		Monterey pine	*Pinus radiata*	9/11	65/65	65% fair	moderate											ID of species not verified	
89	X			23.5						23.5		Canary Island pine	*Pinus canariensis*	45/18	80/75	78% good	good							0 to 4					Removed as of Jan, 2020.

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90	X	X		16.0						16.0		Monterey pine	*Pinus radiata*	18/25	30/30	30% poor	moderate					GR					ID of species not verified. Tree appears to be infected by pine pitch canker fungus.	Removed as of Jan, 2020.
91	X	X		20.4						20.4		Monterey pine	*Pinus radiata*	25/25	40/40	40% poor	poor to mod		W								Tree has bark beetle issues and/or pine pitch canker infection.	Removed as of Jan, 2020.
92	X	X		15.5						15.5		carrotwood, or carob tree	*Cupaniopsis anacardioides, or Ceratonia siliqua*	20/15	25/10	15% very poor	poor to mod	W					0 to 8					Removed as of Jan, 2020.
93	X			11.6						11.6		carrotwood, or carob tree	*Cupaniopsis anacardioides, or Ceratonia siliqua*	20/15	50/30	45% poor	moderate						4 to 7					Removed as of Jan, 2020.
94	X			13.0						13.0		carrotwood, or carob tree	*Cupaniopsis anacardioides, or Ceratonia siliqua*	20/20	45/35	40% poor	poor to mod						6 to 12					Removed as of Jan, 2020.
95	X	X		6.0	6.0	6.0	6.0	6.0	5.0	35.0		carrotwood, or carob tree	*Cupaniopsis anacardioides, or Ceratonia siliqua*	20/20	65/10	30% poor	good							1			Active crack is opened. Tree considered "extreme risk" of failure. Remove ASAP.	Removed as of Jan, 2020.
96	X			34.0						34.0		Shamel ash	*Fraxinus uhdei*	40/25	65/55	57% fair	good								X			Removed as of Jan, 2020.
97		to transplant	X	15.3						15.3		holly oak	*Quercus ilex*	20/25	75/75	75% good	good											80% overall condition "good"
98		to transplant	X	14.0						14.0		holly oak	*Quercus ilex*	25/25	75/75	75% good	good											70% overall condition "good"
99		to transplant	X	11.6						11.6		holly oak	*Quercus ilex*	22/20	70/70	70% good	moderate											78% overall condition "good"
100	X	X		12.3						12.3		Monterey pine	*Pinus radiata*	18/15	50/50	50% fair	moderate		SE	13							ID of species not verified.	Removed as of Jan, 2020.
101	X			16.0						16.0		Monterey pine	*Pinus radiata*	28/20	50/50	50% fair	moderate											Removed as of Jan, 2020.
102				25.9						25.9		Shamel ash	*Fraxinus uhdei*	50/35	50/35	40% poor	moderate				X			12				

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103		X		24.7						24.7		Shamel ash	*Fraxinus uhdei*	55/35	50/40	45% poor	moderate		E		X				9				Estimated overall condition of 20% very poor as of 7/28/2020 due to extensive decay on tension side (north side) of root crown, with possible increasing lean to the southeast over N. Wolfe Rd. WLCA installed two nails and started monitoring lean angle as of 7/28/2020. The baseline reading today was 74.4 degrees (15.6 degrees off vertical). WLCA suggests removal of tree at this time.
104				16.5						16.5		Shamel ash	*Fraxinus uhdei*	55/30	55/50	50% fair	moderate	E	E		X							Needs endweight reduction pruning	
105				16.0						16.0		Shamel ash	*Fraxinus uhdei*	45/25	45/45	45% poor	moderate	E			X			4					
106	X			21.7						21.7		Shamel ash	*Fraxinus uhdei*	50/35	60/50	55% fair	good				X					X			
107	X			19.4						19.4		Shamel ash	*Fraxinus uhdei*	50/25	60/45	55% fair	moderate	S			X								
108	X			15.9						15.9		Shamel ash	*Fraxinus uhdei*	35/30	55/55	55% fair	poor to mod												Removed as of Jan, 2020.
109	X			14.4						14.4		Shamel ash	*Fraxinus uhdei*	35/25	40/40	40% poor	poor to mod	N											Removed as of Jan, 2020.
110	X			18.9						18.9		Shamel ash	*Fraxinus uhdei*	45/30	40/30	35% poor	poor								11				Removed as of Jan, 2020.
111	X	X		29.7						29.7		Monterey pine	*Pinus radiata*	45/35	60/55	57% fair	moderate											Measured at 2 feet.	Removed as of Jan, 2020.
112	X	X		19.1						19.1		Monterey pine	*Pinus radiata*	25/18	0/0	0% Dead													Removed as of Jan, 2020.
113	X	X		28.0	15.0					43.0		Monterey pine	*Pinus radiata*	30/20	25/25	25% very poor	poor	W										Bark beetle issues and/or pine pitch canker fungus.	Removed as of Jan, 2020.
114	X	X		41.0						41.0		Monterey pine	*Pinus radiata*	35/35	55/45	50% fair	moderate	S										Measured at 2 feet.	Removed as of Jan, 2020.

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115	X			19.8						19.8		Shamel ash	*Fraxinus uhdei*	50/30	50/40	43% poor	poor to mod	E								X			Removed as of Jan, 2020.
116	X			12.7						12.7		Shamel ash	*Fraxinus uhdei*	35/25	45/50	47% poor	poor to mod									X			Removed as of Jan, 2020.
117	X			14.4						14.4		Shamel ash	*Fraxinus uhdei*	35/25	40/45	45% poor	poor to mod									X			removed as of October/Nov 2018 per plan.
118	X			7.9						7.9		Shamel ash	*Fraxinus uhdei*	25/15	30/30	30% poor	poor									X			removed as of October/Nov 2018 per plan.
119	X			10.3						10.3		Shamel ash	*Fraxinus uhdei*	25/20	45/50	48% poor	poor to mod	E								X			removed as of October/Nov 2018 per plan.
120	X			11.4						11.4		Shamel ash	*Fraxinus uhdei*	25/20	40/30	37% poor	poor to mod	E								X			removed as of October/Nov 2018 per plan.
121	X			10.9						10.9		Shamel ash	*Fraxinus uhdei*	30/20	60/50	57% fair	mod to good	E								X			removed as of October/Nov 2018 per plan.
122	X			8.3						8.3		Shamel ash	*Fraxinus uhdei*	25/15	40/30	30% poor	poor		E				GR						removed as of October/Nov 2018 per plan.
123	X	X		30.1						30.1		coast redwood	*Sequoia sempervirens*	60/25	30/30	30% poor	poor									X	X		Removed as of Jan, 2020.
124	X			22.9						22.9		Shamel ash	*Fraxinus uhdei*	55/40	60/50	55% fair (? Tree is leafless).							GR					Tree condition needs to be verified after spring leafout.	Removed as of Jan, 2020.
125	X			24.9						24.9		Shamel ash	*Fraxinus uhdei*	60/30	40/40	40% poor	poor						GR			X			Removed as of Jan, 2020.
126	X			12.0						12.0		Shamel ash	*Fraxinus uhdei*	50/20	30/30	30% poor	poor	E								X			Removed as of Jan, 2020.
127	X			25.1						25.1		Shamel ash	*Fraxinus uhdei*	55/35	45/55	50% fair	moderate	E	E				GR			X			Removed as of Jan, 2020.

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128	X			19.4						19.4		Shamel ash	*Fraxinus uhdei*	50/35	40/50	42% poor	poor	E							X			Removed as of Jan, 2020.
129	X			4.0						4.0		fern pine	*Podocarpus gracilior*	15/3	70/50	55% fair	moderate				X						Located at P1 parking level.	removed as of Oct/Nov 2018 per plan.
130	X			4.0						4.0		fern pine	*Podocarpus gracilior*	15/3	70/50	55% fair	moderate				X						Located at P1 parking level.	removed as of Oct/Nov 2018 per plan.
131	X			4.2						4.2		fern pine	*Podocarpus gracilior*	15/3	70/50	55% fair	moderate				X						Located at P1 parking level.	removed as of Oct/Nov 2018 per plan.
132	X			4.4						4.4		fern pine	*Podocarpus gracilior*	15/3	70/50	55% fair	moderate				X						Located at P1 parking level.	removed as of Oct/Nov 2018 per plan.
133	X			4.3						4.3		fern pine	*Podocarpus gracilior*	15/3	70/50	55% fair	moderate				X						Located at P1 parking level.	removed as of Oct/Nov 2018 per plan.
134	X			4.0						4.0		fern pine	*Podocarpus gracilior*	15/3	70/50	55% fair	moderate				X						Located at P1 parking level.	removed as of Oct/Nov 2018 per plan.
135	X			4.8						4.8		fern pine	*Podocarpus gracilior*	15/3	70/50	55% fair	moderate				X						Located at P1 parking level.	removed as of Oct/Nov 2018 per plan.
136	X			4.7						4.7		fern pine	*Podocarpus gracilior*	15/3	70/50	55% fair	moderate				X						Located at P1 parking level.	removed as of Oct/Nov 2018 per plan.
137	X			4.6						4.6		fern pine	*Podocarpus gracilior*	15/3	70/50	55% fair	moderate				X						Located at P1 parking level.	removed as of Oct/Nov 2018 per plan.
138	X			7.8	4.9					12.7		Ficus species	*Ficus sp.*	20/12	70/50	55% fair	moderate				X						Located at P1 parking level.	removed as of Oct/Nov 2018 per plan.
139	X			6.8	4.1					10.9		Ficus species	*Ficus sp.*	20/12	70/50	55% fair	moderate				X						Located at P1 parking level.	removed as of Oct/Nov 2018 per plan.
140	X			6.8						6.8		Ficus species	*Ficus sp.*	20/12	70/50	55% fair	moderate				X						Located at P1 parking level.	removed as of Oct/Nov 2018 per plan.

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141	X			5.9	3.7					9.6		Ficus species	*Ficus sp.*	20/12	70/50	55% fair	moderate				X							Located at P1 parking level.	removed as of Oct/Nov 2018 per plan.
142	X			5.0	4.3					9.3		Ficus species	*Ficus sp.*	20/12	70/50	55% fair	moderate				X							Located at P1 parking level.	removed as of Oct/Nov 2018 per plan.
143	X			5.0	4.1					9.1		Ficus species	*Ficus sp.*	20/12	70/50	55% fair	moderate				X							Located at P1 parking level.	removed as of Oct/Nov 2018 per plan.
144	X			5.0	4.6	4.4				14.0		Ficus species	*Ficus sp.*	20/12	70/50	55% fair	moderate				X							Located at P1 parking level.	removed as of Oct/Nov 2018 per plan.
145	X	X		24.7						24.7		Monterey pine	*Pinus radiata*	35/25	60/60	60% fair	moderate												Removed as of Jan, 2020.
146	X			8.1						8.1		evergreen pear	*Pyrus kawakamii*	20/15	60/50	57% fair	moderate												Removed as of Jan, 2020.
147	X			7.2						7.2		evergreen pear	*Pyrus kawakamii*	15/12	40/40	40% poor	poor	W											Removed as of Jan, 2020.
148	X			42.2						42.2		coast redwood	*Sequoia sempervirens*	60/25	80/80	80% good	good										X		Removed as of Jan, 2020.
149	X			28.0						28.0		coast redwood	*Sequoia sempervirens*	55/15	35/45	40% poor	poor									X	X		Removed as of Jan, 2020.
150	X			4.0	3.1					7.1		flowering cherry cultivar	*Prunus serrulata* Cult.	12/8	30/30	30% poor	? Out of leaf						BRC					Needs root crown excavation. Condition not verified (tree out of leaf during survey).	Removed as of Jan, 2020.
151	X			27.7						27.7		coast redwood	*Sequoia sempervirens*	60/20	80/60	66% fair	good							0 to 3		X	X		Removed as of Jan, 2020.
152	X			31.2						31.2		coast redwood	*Sequoia sempervirens*	55/15	60/60	60% fair	moderate										X		Removed as of Jan, 2020.
153	X			29.5						29.5		coast redwood	*Sequoia sempervirens*	55/15	60/60	60% fair	moderate										X		Removed as of Jan, 2020.

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154	X			18.0						18.0		coast redwood	*Sequoia sempervirens*	50/15	70/70	70% good	moderate									X		75% overall condition "good". Removed as of January 2020.
155	X			20.0						20.0		coast redwood	*Sequoia sempervirens*	50/15	70/70	70% good	moderate									X		75% overall condition "good". Removed as of January 2020.
156	X			27.4						27.4		coast redwood	*Sequoia sempervirens*	60/18	75/75	75% good	good									X		65% overall condition "fair". Removed 1/2020.
157	X			29.0						29.0		coast redwood	*Sequoia sempervirens*	60/18	70/70	70% good	moderate									X		65% overall condition "fair". Removed as of Jan, 2020.
158	X			27.2						27.2		coast redwood	*Sequoia sempervirens*	60/15	50/40	40% poor	poor									X	Root system severed during ADA ramp installation.	55% overall condition "fair" removed as of Jan, 2020.
159	X			34.9						34.9		coast redwood	*Sequoia sempervirens*	70/25	60/40	48% poor	poor to mod									X	Root system severed during ADA ramp installation.	35% overall condition "poor". Removed as of Jan, 2020.
160	X			16.2						16.2		fern pine	*Podocarpus gracilior*	55/12	70/20	35% poor	moderate					X			3			50% overall condition "fair". Removed as of Jan, 2020.
161	X			14.6						14.6		fern pine	*Podocarpus gracilior*	50/6	40/20	27% very poor	poor					X			17			45% overall condition "poor". Removed as of Jan, 2020.
162	X			11.1						11.1		tree species out of leaf	*Genus species*	45/16	50/25	32% poor	poor	S	S						At various elevations			Removed as of Jan, 2020.
163	X			21.5						21.5		Shamel ash	*Fraxinus uhdei*	45/30	30/30	30% poor	poor	E							9	X		Removed as of Jan, 2020.
164	X			18.8						18.8		Shamel ash	*Fraxinus uhdei*	50/30	35/35	35% poor	poor									X		Removed as of Jan, 2020.
165	X			21.4						21.4		Shamel ash	*Fraxinus uhdei*	50/30	30/30	30% poor	poor								6	X		Removed as of Jan, 2020.
166	X	X		16.9						16.9		Shamel ash	*Fraxinus uhdei*	35/25	25/25	25% very poor										X		removed as of January 2020

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Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-trunk for specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
167	X			21.6						21.6		Shamel ash	*Fraxinus uhdei*	40/25	30/30	30% poor	poor					GR			X			removed as of January 2020
168	X			12.1						12.1		Shamel ash	*Fraxinus uhdei*	35/20	50/40	45% poor	poor to mod					GR			X			removed as of January 2020
169	X	X		20.1						20.1		Shamel ash	*Fraxinus uhdei*	40/25	25/25	25% very poor	very poor								X			removed as of January 2020
170	X			25.9						25.9		Shamel ash	*Fraxinus uhdei*	55/30	55/40	45% poor	poor					severe GR			X			removed as of January 2020
171	X			40.2						40.2		coast redwood	*Sequoia sempervirens*	60/25	80/80	80% good	moderate								X	X		1/9/18 75% overall condition. Reoved as of 1/2020.
172	X			21.2						21.2		Shamel ash	*Fraxinus uhdei*	45/30	55/45	49% poor	poor							8				removed as of January 2020
173	X	X		27.2						27.2		coast redwood	*Sequoia sempervirens*	65/18	45/45	45% poor	poor									X		removed as of January 2020
174	X			29.5						29.5		Shamel ash	*Fraxinus uhdei*	55/40	30/30	30% poor	poor						0 to 7			X		removed as of January 2020
175	X			26.5						26.5		Shamel ash	*Fraxinus uhdei*	55/40	50/60	55% fair	moderate									X		removed as of January 2020
176	X	X		22.5						22.5		Shamel ash	*Fraxinus uhdei*	55/40	25/30	27% very poor	very poor									X		removed as of January 2020
177	X	X		37.5						37.5		coast redwood	*Sequoia sempervirens*	65/25	55/60	58% fair	poor to mod								X	X		removed as of January 2020
178	X			5.7	3.8					9.5		strawberry tree	*Arbutus unedo*	15/15	70/50	60% fair	moderate	W	W		X							removed as of January 2020
179	X			8.1						8.1		strawberry tree	*Arbutus unedo*	20/12	80/60	70% good	good	W	W									removed as of January 2020

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 22.5" multi-trunk or specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Main Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
180	X	X		21.2						21.2		Shamel ash	*Fraxinus uhdei*	55/25	15/15	15% very poor	very poor								11	X			removed as of January 2020
181	X	X		11.6						11.6		coast redwood	*Sequoia sempervirens*	55/6	10/10	10% very poor	very poor									X	X		removed as of January 2020
182	X	X		21.2						21.2		coast redwood	*Sequoia sempervirens*	65/12	5/5	5% very poor	very poor										X		removed as of January 2020
183	X	X		13.8						13.8		Shamel ash	*Fraxinus uhdei*	45/16	20/20	20% very poor	very poor						GR				X		removed as of January 2020
184	X	X		11.9						11.9		Shamel ash	*Fraxinus uhdei*	45/12	5/5	5% very poor	very poor										X		removed as of January 2020
185	X	X		13.3						13.3		Shamel ash	*Fraxinus uhdei*	50/18	20/20	20% very poor	very poor										X		removed as of January 2020
186	X	X		9.7						9.7		Shamel ash	*Fraxinus uhdei*	30/12	8/8	8% very poor	very poor										X		removed as of January 2020
187	X			34.7						34.7		coast redwood	*Sequoia sempervirens*	55/25	60/60	60% fair	moderate										X		removed as of January 2020
188	X	X		12.2						12.2		dollar gum seedling	*Eucalyptus polyanthemos (seedling)*	50/20	20/20	20% very poor	very poor	N	N								X		removed as of January 2020
189	X	X		18.1						18.1		coast redwood	*Sequoia sempervirens*	60/20	40/40	40% poor	poor										X		removed as of January 2020
190	X	X		26.9						26.9		coast redwood	*Sequoia sempervirens*	70/25	40/40	40% poor	poor										X		removed as of January 2020
191	X			17.5						17.5		dollar gum seedling	*Eucalyptus polyanthemos (seedling)*	60/35	60/50	58% fair	moderate		S										removed as of January 2020
192	X	X		22.3						22.3		coast redwood	*Sequoia sempervirens*	70/12	10/10	10% very poor	very poor												removed as of January 2020

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193	X			21.0						21.0		coast redwood	*Sequoia sempervirens*	70/16	50/50	50% fair	moderate											removed as of January 2020
194	X			20.4						20.4		dollar gum seedling	*Eucalyptus polyanthemos (seedling)*	60/20	40/40	40% poor	poor								X	X		removed as of January 2020
195	X	X		27.6						27.6		coast redwood	*Sequoia sempervirens*	70/20	30/30	30% poor	poor								X	X		removed as of January 2020
196	X			19.5						19.5		coast redwood	*Sequoia sempervirens*	55/20	55/55	55% fair	moderate								X	X		removed as of January 2020
197	X			30.1						30.1		coast redwood	*Sequoia sempervirens*	75/25	70/70	70% good	moderate								X	X		removed as of January 2020
198	X			5.0						5.0		evergreen pear	*Pyrus kawakamii*	15/12	40/40	40% poor	poor										Stunted.	removed as of January 2020
199	X			6.0						6.0		evergreen pear	*Pyrus kawakamii*	20/13	40/40	40% poor	poor						GR		X		Infected with bacterial fireblight.	removed as of January 2020
200	X	X		10.1						10.1		evergreen pear	*Pyrus kawakamii*	22/20	30/20	25% very poor	moderate						GR		X		Infected with bacterial fireblight.	removed as of January 2020
201																												TREE REMOVED FROM LANDSCAPE
202																												TREE REMOVED FROM LANDSCAPE
203	X	X		18.6						18.6		tulip tree (ID not verified - tree out of leaf during survey)	*Liriodendron tulipifera*	60/20	0/0	0% dead							GR				High risk of failure. Dead tree.	Removed as of January 2020
204																												TREE REMOVED FROM LANDSCAPE
205	X			36.0						36.0		coast redwood	*Sequoia sempervirens*	80/30	75/75	75% good	good										Possible steep hillslope stability issues.	Removed as of January 2020

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206	X			24.1						24.1		coast redwood	*Sequoia sempervirens*	75/20	75/65	70% good	good										Possible steep hillslope stability issues.	Removed as of January 2020
207	X			29.9						29.9		coast redwood	*Sequoia sempervirens*	80/25	75/40	50% fair	good							25			Possible steep hillslope stability issues. Needs arborist cabling between mainstems, or remove one of two mainstems, if retain tree.	Removed as of January 2020
208	X			32.2						32.2		coast redwood	*Sequoia sempervirens*	80/25	75/40	50% fair	good							30			Possible steep hillslope stability issues. Needs arborist cabling between mainstems, or remove one of two mainstems, if retain tree.	Removed as of January 2020
209																												TREE REMOVED FROM LANDSCAPE
210	X			49.0						49.0		coast redwood	*Sequoia sempervirens*	85/25	75/60	65% fair	moderate							65			Possible stability issue on the hill. Roots may have been severed.	Removed as of January 2020
211	X			14.9						14.9		coast redwood	*Sequoia sempervirens*	50/15	65/65	65% fair	moderate								X	X		Removed as of January 2020
212	X			22.0						22.0		coast redwood	*Sequoia sempervirens*	65/15	75/75	75% good	moderate								X	X		Removed as of January 2020
213	X	X		16.0						16.0		tulip tree (ID not verified - tree out of leaf during survey)	*Liriodendron tulipifera*	35/30	0/0	0% dead (Confirm in spring)		W									Tree appears dead, but may simply be above ground dormant until spring leafout.	Removed as of January 2020
214	X	X		31.3						31.3		coast redwood	*Sequoia sempervirens*	75/25	75/65	70% good	moderate								X			Removed as of January 2020
215	X			20.3						20.3		fern pine	*Podocarpus gracilior*	50/20	80/60	70% good	good	W										Removed as of January 2020
216	X			15.4						15.4		fern pine	*Podocarpus gracilior*	50/20	75/65	70% good	good	W										Removed as of January 2020
217	X			13.6						13.6		fern pine	*Podocarpus gracilior*	50/20	75/65	70% good	good	W										Removed as of January 2020
218	X	X		17.4						17.4		tulip tree (ID not verified - tree out of leaf during survey)	*Liriodendron tulipifera*	55/20	0/0	0% dead? (Verify once tree has leafed out in spring)		W									Verify condition once tree has leafed out (or not) in spring.	Removed as of January 2020

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219	X			20.8						20.8		Shamel ash	*Fraxinus uhdei*	50/25	40/50	43% poor	poor to mod	W								X			Tree is in decline with an apparent overall condition of roughly 30% (Poor). REMOVED WITH PERMIT PER PLAN, DEVCON. JULY 2021.
220	X			26.8						26.8		Shamel ash	*Fraxinus uhdei*	55/35	60/55	59% fair	moderate												
221				19.3						19.3		Shamel ash	*Fraxinus uhdei*	50/25	50/50	50% fair	moderate												Tree is in decline with an apparent overall condition of roughly 35% (Poor).
222	X			19.5						19.5		Shamel ash	*Fraxinus uhdei*	55/35	60/55	58% fair	moderate		E										Tree is in decline with an apparent overall condition of roughly 30% (Poor).
223	X			30.4						30.4		Shamel ash	*Fraxinus uhdei*	55/40	70/45	55% fair	good	E	E			GR		12	X				
224	X			18.4						18.4		Shamel ash	*Fraxinus uhdei*	50/15	40/50	40% poor	poor to mod	W											Removed per plan on 10/22/2019 by clint magill, DEVCON.
225	X			25.4						25.4		Shamel ash	*Fraxinus uhdei*	55/35	50/40	48% poor	moderate	E										Roots severed on west side.	
226	X			15.5						15.5		Shamel ash	*Fraxinus uhdei*	45/25	50/30	37% poor	moderate	E	E				0 to 1					Roots severed on west side.	
227	X	X		18.5						18.5		Shamel ash	*Fraxinus uhdei*	45/25	30/20	25% very poor	poor	E					0 to 5	14				Roots severed on west side.	
228	X			11.5						11.5		Shamel ash	*Fraxinus uhdei*	30/25	40/30	35% poor	moderate	E										Roots severed on west side.	
229	X			9.6						9.6		coast redwood	*Sequoia sempervirens*	25/12	90/90	90% excellent	good												Removed as of Jan, 2020.
230	X			8.9						8.9		coast redwood	*Sequoia sempervirens*	30/14	90/90	90% excellent	good												Removed as of Jan, 2020.
231	X			14.4						14.4		Shamel ash	*Fraxinus uhdei*	45/20	35/45	39% poor	poor												Removed as of Jan, 2020.

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232	X			19.3						19.3		Shamel ash	*Fraxinus uhdei*	55/30	40/45	42% poor	poor to mod	E											Removed as of Jan, 2020.
233	X			19.6						19.6		Shamel ash	*Fraxinus uhdei*	55/30	50/40	47% poor	moderate	E					0 to 1						Removed as of Jan, 2020.
234	X			15.1						15.1		Shamel ash	*Fraxinus uhdei*	50/25	35/35	35% poor	poor	E											Removed as of Jan, 2020.
235	X			17.8						17.8		Shamel ash	*Fraxinus uhdei*	55/25	55/40	50% fair	moderate												Removed as of Jan, 2020.
236	X			17.4						17.4		Shamel ash	*Fraxinus uhdei*	55/25	55/55	55% fair	moderate												Removed as of Jan, 2020.
237	X			6.5						6.5		Shamel ash	*Fraxinus uhdei*	30/15	75/65	70% good	mod to good												Removed as of Jan, 2020.
238	X			9.2						9.2		Shamel ash	*Fraxinus uhdei*	35/18	75/60	72% good	mod to good												Removed as of Jan, 2020.
239	X			6.8						6.8		Shamel ash	*Fraxinus uhdei*	30/18	70/45	54% fair	mod to good						serious GR						Removed as of Jan, 2020.
240	X			8.1						8.1		Shamel ash	*Fraxinus uhdei*	30/18	70/60	70% good	mod to good												Removed as of Jan, 2020.
241	X			6.4						6.4		coast redwood	*Sequoia sempervirens*	30/10	85/85	85% good	good												Removed as of Jan, 2020.
242	X			5.4						5.4		coast redwood	*Sequoia sempervirens*	30/10	85/85	85% good	good												Removed as of Jan, 2020.
243	X			5.7						5.7		coast redwood	*Sequoia sempervirens*	30/10	85/85	85% good	good												Removed as of Jan, 2020.
244	X			4.6						4.6		coast redwood	*Sequoia sempervirens*	25/10	75/75	75% good	good												Removed as of Jan, 2020.

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245	X			6.7						6.7		flowering pear (out of leaf)	*Pyrus calleryana* Cult.	30/14	85/65	75% good	good	N											Removed as of Jan, 2020.
246	X			5.8						5.8		flowering pear (out of leaf)	*Pyrus calleryana* Cult.	25/13	85/60	68% fair	good							see notes			Two codominant mainstems. Remove one of two.	Removed as of Jan, 2020.
247	X			4.9						4.9		flowering pear (out of leaf)	*Pyrus calleryana* Cult.	24/10	85/50	55% fair	moderate	N									Root crown anomaly.	Removed as of Jan, 2020.
248	X			7.8						7.8		flowering pear (out of leaf)	*Pyrus calleryana* Cult.	30/18	85/55	62% fair	good	N						Various elevations				Removed as of Jan, 2020.
249	X			6.5						6.5		flowering pear (out of leaf)	*Pyrus calleryana* Cult.	30/12	85/65	75% good	good	N										Removed as of Jan, 2020.
250	X			6.3						6.3		flowering pear (out of leaf)	*Pyrus calleryana* Cult.	30/12	85/55	60% fair	good	N						12				Removed as of Jan, 2020.
251	X			6.1						6.1		flowering pear (out of leaf)	*Pyrus calleryana* Cult.	20/10	85/60	68% fair	good											Removed as of Jan, 2020.
252	X			3.6						3.6		flowering pear (out of leaf)	*Pyrus calleryana* Cult.	18/8	85/75	80% good	good											Removed as of Jan, 2020.
253	X			7.3						7.3		flowering pear (out of leaf)	*Pyrus calleryana* Cult.	30/15	85/65	73% good	good											Removed as of Jan, 2020.
254	X			7.5						7.5		flowering pear (out of leaf)	*Pyrus calleryana* Cult.	30/18	85/55	63% fair	good							7				Removed as of Jan, 2020.
255	X			9.0						9.0		flowering pear (out of leaf)	*Pyrus calleryana* Cult.	30/20	85/45	55% fair	good				X			7				Removed as of Jan, 2020.
256	X			7.5						7.5		flowering pear (out of leaf)	*Pyrus calleryana* Cult.	30/15	85/50	58% fair	good				X			7				Removed as of Jan, 2020.
257	X			7.4						7.4		flowering pear (out of leaf)	*Pyrus calleryana* Cult.	30/15	85/55	65% fair	good				X			10				Removed as of Jan, 2020.

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Mainstems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
258	X			6.7						6.7		flowering pear (out of leaf)	*Pyrus calleryana* Cult.	30/15	85/60	67% fair	good			X	X							Removed as of Jan, 2020.
259	X			4.9						4.9		flowering pear (out of leaf)	*Pyrus calleryana* Cult.	25/12	85/65	69% fair	good			X								Removed as of Jan, 2020.
260		discretionary transplant	X	35.9						35.9	X	California sycamore	*Platanus racemosa*	65/45	65/50	60% fair	moderate	W	W									TREE BEING MOVED DURING THE WEEK OF JULY 12, 2021
261		discretionary transplant	X	22.8	21.9					44.7	X	California sycamore	*Platanus racemosa*	65/45	75/45	57% fair	moderate		N & S			GR	See notes at right	At zero ft.			Bark sloughing at root crown, possibly due to irrigation water spray.	TREE BEING MOVED DURING THE WEEK OF JULY 12, 2021
262		discretionary transplant	X	15.4						15.4	X	California sycamore	*Platanus racemosa*	45/30	70/70	70% good	moderate	NE	NE				1 ft.					TREE BEING MOVED DURING THE WEEK OF JULY 12, 2021
263	X			13.5						13.5		Shamel ash	*Fraxinus uhdei*	35/15	50/45	47% poor	moderate	S	S			GR						Tree condition is roughly the same as previously noted in past years.
264	X			14.9						14.9		Shamel ash	*Fraxinus uhdei*	55/20	55/55	55% fair	poor to mod	S	S									Removed as of Jan, 2020.
265	X			19.0						19.0		Shamel ash	*Fraxinus uhdei*	50/20	55/40	45% poor	moderate					GR		25				Removed as of Jan, 2020.
266	X			20.8						20.8		Shamel ash	*Fraxinus uhdei*	55/30	50/30	35% poor	poor to mod				X						Roots have been severed.	Removed as of Jan, 2020.
267	X			23.7						23.7		Shamel ash	*Fraxinus uhdei*	50/35	65/30	30% poor	good	SW	SW			GR					Roots have been severed.	Removed as of Jan, 2020.
268	X			26.5						26.5		Shamel ash	*Fraxinus uhdei*	55/25	75/55	65% fair	good	S							X			Removed as of Jan, 2020.
269	X			27.1						27.1		Shamel ash	*Fraxinus uhdei*	55/25	75/45	55% fair	good					serious GR		25	X			Removed as of Jan, 2020.
270	X			28.7						28.7		Shamel ash	*Fraxinus uhdei*	60/35	75/55	63% fair	good							10			Root system asymmetrical	Tree condition appears to be declining. Current condition rating is roughly 48% (Poor).

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Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-trunk for specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Main Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
271	X			35.2						35.2		coast redwood	*Sequoia sempervirens*	60/20	70/70	70% good	moderate									X		
272	X			19.3						19.3		coast redwood	*Sequoia sempervirens*	70/12	68/70	69% fair	moderate									X		
273	X			23.3						23.3		coast redwood	*Sequoia sempervirens*	60/12	70/70	70% good	moderate									X		
274	X			23.9						23.9		coast redwood	*Sequoia sempervirens*	60/12	70/70	70% good	moderate									X		
275				17.0						17.0		Shamel ash	*Fraxinus uhdei*	55/16	65/65	65% fair	moderate									X		
276	X			15.4						15.4		Shamel ash	*Fraxinus uhdei*	50/12	40/30	34% poor	poor	E						at root crown	X			Tree condition same as noted in prior years.
277	X			19.3						19.3		Shamel ash	*Fraxinus uhdei*	50/25	50/40	40% poor	moderate	E	E			serious GR			X			Tree condition appears to be declining. Current condition is roughly 30% (Poor).
278	X			21.0						21.0		Shamel ash	*Fraxinus uhdei*	60/25	60/50	55% fair	moderate	W	W			GR						Tree condition appears to be declining. Current condition is roughly 48% (Poor).
279	X			26.7						26.7		coast redwood	*Sequoia sempervirens*	50/20	80/80	80% good	good											Tree condition appears to be declining. Current condition is roughly 70% (i.e. the low end of "Good" condition rating range).
280				16.4						16.4		Shamel ash	*Fraxinus uhdei*	40/20	30/45	37% poor	poor					serious GR			X			Tree condition appears to be declining. Current condition is roughly 30% (Poor).
281		X		21.2						21.2		Shamel ash	*Fraxinus uhdei*	50/35	30/20	20% very poor	very poor			6					X		Roots severed.	Condition same as noted in prior years.
282				15.0						15.0		Shamel ash	*Fraxinus uhdei*	35/18	30/30	30% poor	poor	E				GR			X		Roots severed.	Tree in same condition as previously noted in past years.
283		X		18.1						18.1		Shamel ash	*Fraxinus uhdei*	50/20	40/30	35% poor	poor to mod		E			GR			X		Roots severed.	Tree in decline. Current condition is roughly 26% (Very Poor). Suggest consider removal of tree.

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284	X			14.4						14.4		Shamel ash	*Fraxinus uhdei*	40/25	40/40	40% poor	poor					GR			X			Tree in same condition as previously noted in past years.
285	X			18.4						18.4		Shamel ash	*Fraxinus uhdei*	50/25	50/40	44% poor	poor to mod	E	E			GR			X		Roots severed.	
286	X			17.0						17.0		Shamel ash	*Fraxinus uhdei*	40/45	60/60	60% fair	moderate	N										DEVCON REMOVED TREE WITH PERMIT, PER PLAN, JULY, 2021.
287	X			24.3						24.3		coast redwood	*Sequoia sempervirens*	60/15	70/70	70% good	moderate									X		DEVCON REMOVED TREE WITH PERMIT, PER PLAN, JULY, 2021.
288	X			15.7						15.7		coast redwood	*Sequoia sempervirens*	60/15	70/70	70% good	moderate									X		DEVCON REMOVED TREE WITH PERMIT, PER PLAN, JULY, 2021.
289	X	X		26.9						26.9		coast redwood	*Sequoia sempervirens*	60/15	50/65	63% fair	moderate									X	Apical meristem showing physical symptoms of soil moisture deficit.	DEVCON REMOVED TREE WITH PERMIT, PER PLAN, JULY, 2021.
290	X			14.8						14.8		Shamel ash	*Fraxinus uhdei*	40/20	45/35	40% poor	poor to mod	W				serious GR			X			DEVCON REMOVED TREE WITH PERMIT, PER PLAN, JULY, 2021.
291	X			24.2						24.2		Shamel ash	*Fraxinus uhdei*	50/40	55/45	48% poor	moderate	W				serious GR		6				Tree in decline. Current condition is 36% (Poor).
292	X			16.3						16.3		coast redwood	*Sequoia sempervirens*	35/10	70/70	70% good	moderate											Tree is in decline due to chronic droughty conditions. Current condition rating is 60% (Fair).
293																												TREE REMOVED FROM LANDSCAPE.
294	X			18.7						18.7		fern pine	*Podocarpus gracilior*	30/18	50/40	45% poor	moderate	W						5	X			Removed as of Jan, 2020
295	X			8.6						8.6		southern magnolia	*Magnolia grandiflora*	18/15	25/25	25% very poor	very poor	W		9					X	X		Removed as of Jan, 2020
296	X			17.3						17.3		Shamel ash	*Fraxinus uhdei*	30/15	35/35	35% poor	poor	W	W									Removed as of Jan, 2020

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297	X	X		12.1						12.1		Shamel ash	*Fraxinus uhdei*	25/15	35/20	20% very poor	poor							6					Removed as of Jan, 2020
298	X	X		18.8						18.8		coast redwood	*Sequoia sempervirens*	60/12	15/15	15% very poor	very poor										X		Removed as of Jan, 2020
299	X			16.0						16.0		Shamel ash	*Fraxinus uhdei*	45/15	30/45	40% poor	poor		E										Removed as of Jan, 2020
300	X	X		23.3						23.3		coast redwood	*Sequoia sempervirens*	60/15	20/20	20% very poor	very poor										X		Removed as of Jan, 2020
301	X	X		15.2						15.2		Shamel ash	*Fraxinus uhdei*	25/18	20/15	19% very poor	very poor										X		Removed as of Jan, 2020
302	X			26.9	15.0					41.9		coast redwood	*Sequoia sempervirens*	70/25	60/60	60% fair	moderate										X		Removed as of Jan, 2020
303	X			17.2						17.2		Shamel ash	*Fraxinus uhdei*	35/25	55/60	55% fair	moderate	NW											Removed as of Jan, 2020
304	X	X		19.0						19.0		coast redwood	*Sequoia sempervirens*	45/10	5/5	5% very poor	very poor										X		Removed as of Jan, 2020
305	X	X		20.1						20.1		Shamel ash	*Fraxinus uhdei*	20/15	10/10	10% very poor						X			6				Removed as of Jan, 2020
306	X			17.5						17.5		Shamel ash	*Fraxinus uhdei*	45/25	50/40	40% poor	poor to mod	W							8				Removed as of Jan, 2020
307	X	X		17.7						17.7		Shamel ash	*Fraxinus uhdei*	40/20	30/25	29% very poor	poor					X		0 to 6					Removed as of Jan, 2020
308	X			21.1						21.1		coast redwood	*Sequoia sempervirens*	50/15	75/75	75% good	good												Removed as of Jan, 2020
309	X			16.2						16.2		coast redwood	*Sequoia sempervirens*	50/15	75/70	73% good	good												Removed as of Jan, 2020

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310	X			20.6						20.6		Shamel ash	*Fraxinus uhdei*	50/35	50/50	50% fair	moderate	W											Removed as of Jan, 2020
311	X			27.0						27.0		Shamel ash	*Fraxinus uhdei*	55/45	65/55	60% fair	good	W							8				Removed as of Jan, 2020
312	X			16.1						16.1		Shamel ash	*Fraxinus uhdei*	35/20	50/25	32% poor	moderate	W					GR	at root crown due to sprinkler irrigation most likely					Removed as of Jan, 2020
313	X			20.9						20.9		Shamel ash	*Fraxinus uhdei*	45/35	50/35	45% poor	poor	W					GR			X			Removed as of Jan, 2020
314	X			30.6						30.6		Shamel ash	*Fraxinus uhdei*	55/45	70/40	50% fair	Good					X			6			Root system on steep slope	
315	X			21.8						21.8		coast redwood	*Sequoia sempervirens*	60/12	55/60	57% fair	moderate	E									X		25% overall condition "very poor".
316	X			18.5						18.5		Shamel ash	*Fraxinus uhdei*	55/20	50/45	48% poor	moderate	N										Root system on steep slope	
317	X			10.2						10.2		Shamel ash	*Fraxinus uhdei*	45/12	40/40	40% poor	poor												35% overall condition "poor".
318	X			9.9						9.9		Shamel ash	*Fraxinus uhdei*	50/12	45/45	45% poor	poor												
319	X			18.6						18.6		Shamel ash	*Fraxinus uhdei*	50/30	50/50	50% fair	moderate	N											
320	X			13.3						13.3		Shamel ash	*Fraxinus uhdei*	35/12	50/40	45% poor	moderate								7				
321	X			16.2						16.2		Shamel ash	*Fraxinus uhdei*	50/20	55/60	56% fair	mod to good										X		
322	X			11.9						11.9		Shamel ash	*Fraxinus uhdei*	45/15	40/40	40% poor	poor										X		

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323	X			9.4						9.4		Shamel ash	*Fraxinus uhdei*	45/12	30/30	30% poor	poor									X		
324	X			12.8						12.8		Shamel ash	*Fraxinus uhdei*	40/12	30/40	35% poor	poor									X		
325	X	X		7.4						7.4		Shamel ash	*Fraxinus uhdei*	28/12	20/20	20% very poor	very poor									X		
326	X			13.0						13.0		Shamel ash	*Fraxinus uhdei*	45/20	45/55	48% poor	poor									X		
327	X			11.9						11.9		Shamel ash	*Fraxinus uhdei*	45/12	30/30	30% poor	poor		E			GR				X		
328																												TREE HAS BEEN REMOVED FROM LANDSCAPE.
329	X			14.2						14.2		Shamel ash	*Fraxinus uhdei*	45/20	35/40	38% poor	poor		S							X		
330	X			15.7						15.7		Shamel ash	*Fraxinus uhdei*	40/20	30/40	35% poor	poor		S							X		
331	X			10.1						10.1		Shamel ash	*Fraxinus uhdei*	30/20	40/35	37% poor	poor	S	S							X		
332	X	X		18.9						18.9		coast redwood	*Sequoia sempervirens*	55/12	5/5	5% very poor	very poor									X		0% (Dead).
333	X	X		18.4						18.4		coast redwood	*Sequoia sempervirens*	55/8	5/5	5% very poor	very poor									X		0% (Dead).
334	X			18.5						18.5		Shamel ash	*Fraxinus uhdei*	45/25	45/55	50% fair	moderate									X		
335	X	X		16.0						16.0		coast redwood	*Sequoia sempervirens*	50/12	5/5	5% very poor	very poor									X		0% (Dead).

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336	X	X		9.6						9.6		Shamel ash	*Fraxinus uhdei*	25/10	10/10	10% very poor	moderate							mainstem			X		
337	X	X		8.8						8.8		Shamel ash	*Fraxinus uhdei*	25/7	5/5	5% very poor	very poor							mainstem			X		
338	X			8.7						8.7		Shamel ash	*Fraxinus uhdei*	30/8	30/10	15% very poor	poor							mainstem			X		
339	X			12.8						12.8		Shamel ash	*Fraxinus uhdei*	40/20	40/40	40% poor	poor	W									X		
340	X			14.3						14.3		Shamel ash	*Fraxinus uhdei*	50/20	35/40	38% poor	poor										X		
341	X	X		10.9						10.9		Shamel ash	*Fraxinus uhdei*	35/8	10/10	10% very poor	very poor							mainstem			X		
342	X	X		12.0						12.0		Shamel ash	*Fraxinus uhdei*	45/18	10/10	10% very poor	very poor							mainstem			X		
343	X			13.7						13.7		Shamel ash	*Fraxinus uhdei*	45/18	35/35	35% poor	poor										X	Verify condition once tree leafs out in spring.	
344	X	X		7.3						7.3		Shamel ash	*Fraxinus uhdei*	20/12	20/20	20% very poor	very poor										X		
345	X			14.4						14.4		Shamel ash	*Fraxinus uhdei*	50/20	40/30	35% poor	poor								8		X		
346	X	X		10.7						10.7		Shamel ash	*Fraxinus uhdei*	25/12	10/10	10% very poor	very poor	E									X		
347	X	X		11.3						11.3		Shamel ash	*Fraxinus uhdei*	25/12	25/10	17% very poor	poor										X		
348	X	X		12.9						12.9		Shamel ash	*Fraxinus uhdei*	45/18	25/20	20% very poor	very poor										X		

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Mainstems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
349	X	X		12.2						12.2		Shamel ash	*Fraxinus uhdei*	30/20	25/25	25% very poor	very poor									X		
350	X	X		14.2						14.2		Shamel ash	*Fraxinus uhdei*	50/15	20/20	20% very poor	very poor									X		
351	X			14.6						14.6		Shamel ash	*Fraxinus uhdei*	30/20	40/25	28% very poor	poor to mod							6		X		
352	X			11.7						11.7		Shamel ash	*Fraxinus uhdei*	25/20	10/10	10% very poor	very poor	W	W							X		
353	X			17.7						17.7		Shamel ash	*Fraxinus uhdei*	40/25	35/35	35% poor	poor	E								X		
354	X			13.4						13.4		Shamel ash	*Fraxinus uhdei*	35/20	45/35	40% poor	poor									X		
355	X			12.5						12.5		Shamel ash	*Fraxinus uhdei*	35/15	20/15	18% very poor	very poor									X		
356	X			18.0						18.0		Shamel ash	*Fraxinus uhdei*	45/30	20/10	15% very poor	very poor	W	S							X		Removed with permit per plan, in July, 2021 by Sand Hill Property Co.
357	X			20.8						20.8		Shamel ash	*Fraxinus uhdei*	45/45	40/50	46% poor	M									X		Removed with permit per plan, in July, 2021 by Sand Hill Property Co.
358	X			10.9						10.9		Shamel ash	*Fraxinus uhdei*	35/15	0/0	0% dead	E	E								X		Removed with permit per plan, in July, 2021 by Sand Hill Property Co.
359	X			18.3						18.3		Pine species (not verified)	*Pinus sp.*	30/20	80/55	65% fair	good	N					0 to 1 foot		X			Removed with permit per plan, in July, 2021 by Sand Hill Property Co.
360	X			24.4						24.4		Italian stone pine	*Pinus pinea*	30/35	90/60	77% good	excellent											Removed with permit per plan, in July, 2021 by Sand Hill Property Co.
361	X			26.6						26.6		Italian stone pine	*Pinus pinea*	30/30	60/60	60% fair	moderate								X	X	Measured at 2 feet.	65% overall condition "fair".

The Rise Project / Tree Data by Walter Levison, Consulting Arborist (WLCA)
Revised 3/23/2022 by WLCA

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-trunk for specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Mainstems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
362	X			28.6						28.6		Italian stone pine	*Pinus pinea*	25/35	70/70	70% good	good								X		Measured at 2 feet.	50% overall condition "fair".
363	X	X		7.2						7.2		red oak	*Quercus rubra (not verified)*	20/15	80/50	60% fair	good										Tree out of leaf. Needs training pruning.	10% overall condition "very poor".
364	X	X		5.5						5.5		oak species	*Quercus sp.*	12/8	60/40	40% poor	moderate				X			5			Tree out of leaf. Needs training pruning.	5% overall condition "very poor".
365	X	X		7.3						7.3		southern magnolia	*Magnolia grandiflora*	18/13	40/40	40% poor	poor to mod									X		10% overall condition "very poor".
366	X			17.0						17.0		Italian stone pine	*Pinus pinea*	18/25	80/50	60% fair	good	N							X		Measured at 3.5 feet	50% overall condition "fair".
367	X	X		24.3						24.3		Italian stone pine	*Pinus pinea*	25/30	80/35	45% poor	good	N						5	X			20% overall condition "very poor".
368	X			20.2						20.2		Italian stone pine	*Pinus pinea*	25/30	80/35	45% poor	good	N				GR		7	X		Measured at 3.5 feet.	30% overall condition "poor".
369	X			23.8						23.8		Italian stone pine	*Pinus pinea*	25/30	50/50	50% fair	poor to mod			10							Measured at 2.0 feet.	38% overall condition "poor".
370	X			5.7						5.7		tree species out of leaf	*(Genus, species)*	25/15	75/55	65% fair	moderate										Verify species in spring after full leafout.	
371	X			26.3						26.3		Aleppo pine	*Pinus halepensis*	30/35	80/60	70% good	good								X		Codominant mainstems at 5 feet.	50% overall condition "fair".
372	X			21.6	18.7					40.3		Italian stone pine	*Pinus pinea*	30/35	80/70	75% good	good	N							X			65% overall condition "fair".
373	X	X		7.4						7.4		southern magnolia	*Magnolia grandiflora*	20/15	25/25	25% very poor	very poor									X		20% overall condition "very poor".
374	X	X		7.2						7.2		tulip tree	*Liriodendron tulipifera*	12/8	20/10	15% very poor	very poor	N			X				X	X		In parking lot of Benihana near Hyatt construction project. Sandis #1225.

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Mainstems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
375	X	X		5.6						5.6		tulip tree	*Liriodendron tulipifera*	12/8	20/10	15% very poor	very poor				X				X	X		In parking lot of Benihana near Hyatt construction project. Sandis #1224.
376	X	X		5.6						5.6		southern magnolia	*Magnolia grandiflora*	13/10	25/25	25% very poor	very poor									X		10% overall condition "very poor".
377	X	X		7.6						7.6		southern magnolia	*Magnolia grandiflora*	19/12	35/35	35% poor	poor									X		20% overall condition "very poor".
378	X	X		7.0						7.0		southern magnolia	*Magnolia grandiflora*	20/14	20/20	20% very poor	very poor									X		20% overall condition "very poor".
379	X	X		6.5						6.5		southern magnolia	*Magnolia grandiflora*	14/12	25/25	25% very poor	very poor									X		20% overall condition "very poor".
380	X	X		7.4						7.4		southern magnolia	*Magnolia grandiflora*	20/10	20/20	20% very poor	very poor	W								X		20% overall condition "very poor".
381	X			23.0	14.7					37.7		Italian stone pine	*Pinus pinea*	25/30	75/55	64% fair	moderate							5	X			43% overall condition "poor".
382	X			20.8						20.8		Italian stone pine	*Pinus pinea*	25/25	70/60	65% fair	moderate					GR			X			53% overall condition "fair".
383	X			19.5						19.5		Italian stone pine	*Pinus pinea*	25/30	80/65	74% good	good		E			GR			X			44% overall condition "poor".
384	X			22.0						22.0		Italian stone pine	*Pinus pinea*	25/30	70/60	65% fair	moderate	S	S						X		Measured at 2.0 feet.	50% overall condition "fair".
385	X			33.2						33.2		Italian stone pine	*Pinus pinea*	25/35	60/30	38% poor	moderate	S						3	X			42% overall condition "poor".
386	X	X		4.5						4.5		southern magnolia	*Magnolia grandiflora*	13/8	15/15	15% very poor	very poor							1	X	X		10% overall condition "very poor".
387	X	X		7.8						7.8		southern magnolia	*Magnolia grandiflora*	18/18	20/20	20% very poor	very poor									X		30% overall condition "poor".

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-trunk for most specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Main Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
388	X	X		7.5						7.5		southern magnolia	*Magnolia grandiflora*	18/15	20/20	20% very poor	very poor									X		15% overall condition "very poor".
389	X			31.9	22.3					54.2		Italian stone pine	*Pinus pinea*	30/45	50/40	47% poor	moderate							2	X			44% overall condition "poor".
390	X			13.2	13.0					26.2		Italian stone pine	*Pinus pinea*	25/15	80/30	45% poor	good	N	N					3	X			35% overall condition "poor".
391	X			12.4	12.0					24.4		Italian stone pine	*Pinus pinea*	25/30	80/60	67% fair	good	E	E					3	X			45% overall condition "poor".
392	X			14.6						14.6		Italian stone pine	*Pinus pinea*	25/18	80/65	69% fair	good	E							X			40% overall condition "poor".
393	X			14.3						14.3		Italian stone pine	*Pinus pinea*	20/20	70/70	70% good	good		E						X			55% overall condition "fair".
394	X			10.3						10.3		tree species out of leaf	*(Genus, species)*	35/20	80/65	75% good	good											
395	X			9.8						9.8		tree species out of leaf	*(Genus, species)*	35/20	80/65	75% good	good	W										
396	X	X		18.1						18.1		coast redwood	*Sequoia sempervirens*	65/12	70/70	70% good	moderate										Steep slope	15% overall condition "very poor".
397	X	X		20.5						20.5		coast redwood	*Sequoia sempervirens*	65/12	75/75	75% good	moderate										Steep slope	25% overall condition "very poor".
398	X			13.4						13.4		Shamel ash	*Fraxinus uhdei*	40/25	80/70	74% good	good										Steep slope	
399	X			11.3						11.3		Shamel ash	*Fraxinus uhdei*	35/15	30/30	30% poor	poor										Steep slope	
400	X			21.3						21.3		Shamel ash	*Fraxinus uhdei*	40/25	60/50	55% fair	moderate							6			Steep slope	

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401	X			20.2						20.2		Shamel ash	*Fraxinus uhdei*	45/20	50/35	40% poor	moderate	W						8	10			On steep slope.	
402	X			18.4						18.4		Shamel ash	*Fraxinus uhdei*	45/25	60/45	55% fair	good								6			On steep slope.	
403	X			15.0						15.0		Shamel ash	*Fraxinus uhdei*	40/18	40/40	40% poor	poor	W						6	8			On steep slope.	
404	X			25.7						25.7		Shamel ash	*Fraxinus uhdei*	55/35	40/40	40% poor	poor	SW							various elevations			On steep slope.	
405	X			29.5						29.5		Shamel ash	*Fraxinus uhdei*	65/35	40/35	40% poor	poor	S	S						7			On steep slope.	
406	X	X		17.4						17.4		coast redwood	*Sequoia sempervirens*	50/8	70/70	70% good	moderate											On steep slope.	25% overall condition "very poor".
407	X	X		4.1						4.1		southern magnolia	*Magnolia grandiflora*	15/1	5/5	5% very poor	very poor								0 to 10				0% (Dead)
408	X	X		5.9	3.8					9.7		southern magnolia	*Magnolia grandiflora*	18/6	10/10	10% very poor	very poor								various elevations				10% overall condition "very poor".
409	X			18.3						18.3		coast redwood	*Sequoia sempervirens*	55/15	65/65	65% fair	moderate									X			50% overall condition "fair".
410	X			20.7						20.7		coast redwood	*Sequoia sempervirens*	55/13	65/65	65% fair	moderate									X			50% overall condition "fair".
411	X			22.4						22.4		coast redwood	*Sequoia sempervirens*	55/13	60/60	60% fair	poor to mod									X			40% overall condition "poor".
412	X			32.4						32.4		Shamel ash	*Fraxinus uhdei*	65/35	65/55	65% fair	good	S											Removed Aug, 2019.
413	X			15.6						15.6		Shamel ash	*Fraxinus uhdei*	60/18	50/40	45% poor	poor to mod	N											Removed Aug, 2019.

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1²+2²+3²+4²+5²)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-trunk, or most specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Main Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
414		discretionary transplant	X	22.5						22.5	X	California sycamore	*Platanus racemosa*	55/30	50/45	50% fair	moderate	W	W			GR					Will need endweight reduction pruning at west side of canopy.	Team proposes to transplant tree. Current condition roughly the same as previously noted in past years.
415		discretionary transplant	X	18.3						18.3	X	California sycamore	*Platanus racemosa*	60/30	50/50	50% fair	moderate	N				GR						Team proposes to transplant tree. Current condition roughly the same as previously noted in past years.
416		discretionary transplant	X	17.8						17.8	X	California sycamore	*Platanus racemosa*	50/20	50/50	50% fair	moderate	E				GR						Team proposes to transplant tree. Current condition roughly the same as previously noted in past years.
417	X			19.2						19.2		Shamel ash	*Fraxinus uhdei*	30/25	75/55	70% good	good											Removed per plan August 2019.
418	X			11.5						11.5		Shamel ash	*Fraxinus uhdei*	30/15	45/40	40% poor	moderate					GR						Removed per plan August 2019.
419	X			17.3						17.3		Shamel ash	*Fraxinus uhdei*	35/40	60/50	55% fair	moderate	W				GR						Removed per plan August 2019.
420	X			11.1						11.1		Shamel ash	*Fraxinus uhdei*	35/25	75/70	70% good	good	W										Removed per plan August 2019.
421	X			13.7						13.7		Shamel ash	*Fraxinus uhdei*	35/25	50/50	50% fair	poor to mod											Removed per plan August 2019.
422	X			14.3						14.3		Shamel ash	*Fraxinus uhdei*	30/30	75/45	60% fair	good							9				Removed per plan August 2019.
423	X			29.1						29.1		coast redwood	*Sequoia sempervirens*	70/20	70/70	70% good	moderate											Removed per plan August 2019.
424	X			33.6						33.6		coast redwood	*Sequoia sempervirens*	70/18	60/60	60% fair	moderate											Removed per plan August 2019.
425	X			24.9						24.9		coast redwood	*Sequoia sempervirens*	65/15	70/70	70% good	moderate											Removed per plan August 2019.
426	X			27.8						27.8		coast redwood	*Sequoia sempervirens*	55/20	75/68	70% good	moderate											Removed per plan August 2019.

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 22.5" multi-trunk or specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Mainstems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
427	X			17.3						17.3		Shamel ash	*Fraxinus uhdei*	60/20	40/40	40% poor	poor	E								X			Removed per plan August 2019.
428				29.0						29.0		Shamel ash	*Fraxinus uhdei*	60/35	50/50	50% fair	poor to mod	W											Tree is declining. Appears to be in 40% overall condition (Poor), with normal leaf senescence plus twig and branch dieback from drought-induced decline.
429				22.0						22.0		Shamel ash	*Fraxinus uhdei*	55/35	70/55	65% fair	good											Codominant mainstems fork at 13 feet.	Tree is declining. Appears to be in 45% overall condition (Poor), Tree is to be removed and posted as such as of May, 2020 (approved by City of Cupertino City Staff) in order to accommodate unforseen utility installation(s).
430	X	X		27.4						27.4		giant sequoia	*Metasequoia glyptostroboides*	75/15	65/45	55% fair	poor to mod											Tree was limbed up.	TREE IS DEAD. TREE REQUIRES REMOVAL FROM THE LANDSCAPE.
431				27.9						27.9		Shamel ash	*Fraxinus uhdei*	65/45	45/30	40% poor	poor to mod	W	E						9				Tree in decline, with a current overall condition of 34% or "Poor".
432				24.0						24.0		Shamel ash	*Fraxinus uhdei*	55/35	50/60	55% fair	poor to mod	W											Tree in decline, with a current overall condition of 44% or "Poor".
433				16.9						16.9		Shamel ash	*Fraxinus uhdei*	60/25	75/60	63% fair	good	E	E										Tree in decline, with a current overall condition of 50% or "Fair". ("Fair" ranges from 50% to 69%).
434	X	X		29.3						29.3		giant sequoia	*Metasequoia glyptostroboides*	75/12	35/20	25% very poor	poor	E				X						Roots were severed during installation of ADA walkway.	TREE IS DEAD. TREE REQUIRES REMOVAL FROM THE LANDSCAPE.
435		X		31.1						31.1		Shamel ash	*Fraxinus uhdei*	65/45	40/20	25% very poor	poor	W					GR					Roots severed during sidewalk replacement	Same condition as previous.
436				23.0	12.0					35.0		coast redwood	*Sequoia sempervirens*	65/18	75/60	65% fair	good								3			Diameters estimated.	
437				27.7						27.7		Shamel ash	*Fraxinus uhdei*	60/30	30/30	30% poor	poor	W							9				Tree currently in the same condition as previously noted.
438	X	X		23.5						23.5		Shamel ash	*Fraxinus uhdei*	65/18	60/30	37% poor	moderate	E										Roots severed during sidewalk replacement	
439	X			27.0						27.0		coast redwood	*Sequoia sempervirens*	75/16	70/70	70% good	good					X						Crown raising pruning was performed to limb up this tree.	45% overall condition "poor".

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Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-stem, specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Main Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
440	X	X		18.7						18.7		Shamel ash	*Fraxinus uhdei*	60/30	35/35	35% poor	very poor	W	W					1			Condition estimated prior to spring leafout.	Tree currently in 28% overall condition (Very Poor). Tree suggested by WLCA to be removed.
441	X	X		21.2						21.2		Shamel ash	*Fraxinus uhdei*	60/45	50/50	50% fair	moderate							1			Roots severed during sidewalk replacement	Tree currently in 28% overall condition (Very Poor). Tree suggested by WLCA to be removed.
442	X			31.2						31.2		Shamel ash	*Fraxinus uhdei*	60/45	60/45	53% fair	moderate	W	S								Roots severed during sidewalk replacement . Will need endweight reduction pruning.	Tree appears to be in decline. Current overall condition is 45% (Poor).
443	X			41.0						41.0		coast redwood	*Sequoia sempervirens*	70/20	75/60	68% fair	good							5			Cable installation recommended.	45% overall condition "poor".
444				21.5						21.5		Shamel ash	*Fraxinus uhdei*	55/30	70/50	60% fair	moderate	W										
445	X			15.4						15.4		Shamel ash	*Fraxinus uhdei*	60/18	50/50	50% fair	moderate	N				X						Removed as of August 2019.
446	X			21.1						21.1		coast redwood	*Sequoia sempervirens*	70/15	75/75	75% good	good											Removed as of August 2019.
447	X			17.5						17.5		Shamel ash	*Fraxinus uhdei*	60/20	55/50	52% fair	poor to mod	N										Removed as of August 2019.
448	X			15.7						15.7		coast redwood	*Sequoia sempervirens*	70/10	60/60	60% fair	moderate	E									Tree was limbed up.	Removed as of August 2019.
449	X			16.5						16.5		coast redwood	*Sequoia sempervirens*	70/10	60/60	60% fair	moderate	E									Tree was limbed up.	Removed as of August 2019.
450	X			15.5						15.5		coast redwood	*Sequoia sempervirens*	70/10	60/50	55% fair	moderate	E									Tree was limbed up.	50% overall condition "fair".
451	X			19.6						19.6		Shamel ash	*Fraxinus uhdei*	50/25	70/55	60% fair	good	W										
452	X			21.5						21.5		Shamel ash	*Fraxinus uhdei*	55/30	50/35	40% poor	poor to mod	W						0 to 2				Current condition rating is roughly the same as noted in previous years.

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Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Mainstems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
453	X	X		15.0						15.0		Shamel ash	*Fraxinus uhdei*	50/10	10/10	10% very poor	very poor											
454	X			29.4						29.4		Shamel ash	*Fraxinus uhdei*	65/35	50/40	47% poor	poor to mod							12			Roots damaged.	Current condition rating is roughly the same as previously noted in past years.
455				17.7						17.7		Shamel ash	*Fraxinus uhdei*	45/18	30/35	33% poor	poor	E									Roots damaged.	
456	X			22.3						22.3		Shamel ash	*Fraxinus uhdei*	60/20	40/35	37% poor	poor	W	W					15				Same condition rating as noted in prior years.
457	X			28.5						28.5		Shamel ash	*Fraxinus uhdei*	65/35	50/60	55% fair	moderate	W										May be declining in condition. Current condition is roughly 45% (Poor).
458	X			25.1						25.1		Shamel ash	*Fraxinus uhdei*	60/35	30/40	35% poor	poor to mod							various elevations			Bark sluffing off. Phloem/bark disorder.	Same condition rating as noted in prior years.
459	X			31.9						31.9		Shamel ash	*Fraxinus uhdei*	75/45	60/60	60% fair	moderate										Roots damaged.	
460				31.8						31.8		Shamel ash	*Fraxinus uhdei*	65/45	60/55	59% fair	moderate										Roots damaged.	
461				25.5						25.5		Shamel ash	*Fraxinus uhdei*	55/40	50/50	50% fair	poor to mod							15				Tree declining. Current overall condition is roughly 35% (Poor). Extensive twig dieback apparent.
462	X	X		15.3						15.3		Shamel ash	*Fraxinus uhdei*	40/15	50/40	45% poor	moderate							8				Tree declining. Current overall condition is roughly 28% (Very Poor). Tissue necrosis and bark inclusion at fork noted. Trees in very poor condition are typically suggested to be removed.
463				21.0						21.0		Shamel ash	*Fraxinus uhdei*	55/45	75/60	70% good	good	W									Roots damaged.	Tree appears to be in decline due to chronic drought conditions. Current overall condition roughly 55% (Fair).
464	X			34.1						34.1		Shamel ash	*Fraxinus uhdei*	55/30	65/45	48% poor	moderate	E					0 to 5					Tree appears to be in decline due to chronic drought conditions. Current overall condition roughly 40% (Poor).
465				22.8						22.8		Shamel ash	*Fraxinus uhdei*	60/30	55/45	50% fair	moderate	W						16			Roots damaged.	Tree is currently in same condition as noted in previous years.

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Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-stem, or multi-stem specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Main Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
466	X			29.3						29.3		Shamel ash	*Fraxinus uhdei*	65/30	60/45	50% fair	mod to good	E										Tree appears to be in decline due to chronic drought conditions. Current overall condition roughly 40% (Poor).
467	X	X		25.6						25.6		Shamel ash	*Fraxinus uhdei*	65/45	50/30	37% poor	moderate						GR	3 to 10					Tree declining. Current overall condition is roughly 28% (Very Poor). Tissue necrosis and bark inclusion at fork noted. Trees in very poor condition are typically suggested to be removed.
468		X		24.6						24.6		Shamel ash	*Fraxinus uhdei*	55/30	40/40	40% poor	poor										Roots damaged.	Tree declining with apparent extensive twig dieback. Current overall condition is roughly 20% (Very Poor). Tissue necrosis and bark inclusion at fork noted. Trees in very poor condition are typically suggested to be removed.
469				25.2						25.2		Shamel ash	*Fraxinus uhdei*	50/30	40/30	38% poor	poor	W	S				GR		12			Roots damaged.	Tree is currently in same condition as noted in previous years.
470				27.7						27.7		Shamel ash	*Fraxinus uhdei*	60/35	45/35	40% poor	poor												Appears to be experiencing normal Fall leaf senescence (leaf drop).
471				14.9						14.9		Shamel ash	*Fraxinus uhdei*	40/15	45/45	45% poor	poor	W	W										Appears to be experiencing normal Fall leaf senescence (leaf drop).
472				16.4						16.4		Shamel ash	*Fraxinus uhdei*	50/20	45/45	45% poor	poor	E											Appears to be experiencing normal Fall leaf senescence (leaf drop).
473				31.5						31.5		Shamel ash	*Fraxinus uhdei*	60/45	75/65	68% fair	good								9 and 10 (not verified)			Roots damaged	Tree appears to be somewhat declining. Current overall condition is roughly 57% (Fair).
474				25.3						25.3		Shamel ash	*Fraxinus uhdei*	60/30	75/60	65% fair	good	E					GR						Tree appears to be somewhat declining. Current overall condition is roughly 59% (Fair).
475				28.7						28.7		Shamel ash	*Fraxinus uhdei*	60/45	70/65	68% fair	moderate										Roots damaged.	Tree is declining, with an estimated 43% overall condition rating (Poor). Leaf fall appears to be a combo of normal leaf fall plus twig and branch dieback.
476	X			15.2						15.2		Shamel ash	*Fraxinus uhdei*	30/25	35/40	38% poor	poor to mod	E											Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
477	X	X		13.9						13.9		Shamel ash	*Fraxinus uhdei*	35/20	20/20	20% very poor	very poor												Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-trunk, or specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
478	X	X		16.9						16.9		coast redwood	*Sequoia sempervirens*	40/15	50/50	50% fair	poor											0% Dead as noted 1/31/2021. High risk of failure and impact with ground targets within 1 year. Remove tree ASAP. This tree may have already been partially removed due to failure, as of April, 2021. REMOVED WITH PERMIT JULY 2021.
479	X	X		22.1						22.1		coast redwood	*Sequoia sempervirens*	50/20	0/0	0% dead												0% Dead as noted 1/31/2021. High risk of failure and impact with ground targets within 1 year. Remove tree ASAP. This tree may have already been partially removed due to failure, as of April, 2021. REMOVED WITH PERMIT JULY 2021.
480	X			13.1						13.1		Shamel ash	*Fraxinus uhdei*	30/18	45/45	45% poor	poor	SE										Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
481	X			20.0						20.0		Shamel ash	*Fraxinus uhdei*	35/25	45/45	45% poor	poor	W										Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
482	X			9.8						9.8		Shamel ash	*Fraxinus uhdei*	30/10	30/20	25% very poor	poor	W										Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
483	X			12.7						12.7		Shamel ash	*Fraxinus uhdei*	30/16	50/40	50% fair	moderate	N					GR					Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
484	X			15.9						15.9		Shamel ash	*Fraxinus uhdei*	30/18	60/50	55% fair	moderate											Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
485	X			13.7						13.7		Shamel ash	*Fraxinus uhdei*	30/20	55/55	55% fair	moderate	E										Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
486	X			22.3						22.3		coast redwood	*Sequoia sempervirens*	50/18	70/70	70% good	moderate											0% Dead as noted 1/31/2021. High risk of failure and impact in 2021. Remove tree ASAP. This tree may have already been removed or partially removed due to failure, as of April, 2021.REMOVED JULY 2021 WITH PERMIT.
487	X			21.9						21.9		coast redwood	*Sequoia sempervirens*	50/18	70/70	70% good	moderate											0% Dead as noted 1/31/2021. High risk of failure and impact in 2021. Remove tree ASAP. This tree may have already been removed or partially removed due to failure, as of April, 2021. REMOVED WITH PERMIT, JULY 2021.
488	X			12.4						12.4		Shamel ash	*Fraxinus uhdei*	30/16	50/35	40% poor	moderate	N						0 to 3				Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.

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489	X			8.9						8.9		Shamel ash	*Fraxinus uhdei*	30/20	55/35	45% poor	moderate											Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
490	X			14.3						14.3		Shamel ash	*Fraxinus uhdei*	35/35	55/45	47% poor	poor to mod	W	W									Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
491	X	X		9.3						9.3		Shamel ash	*Fraxinus uhdei*	20/12	40/20	27% very poor	poor	W	W					8				Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
492	X			9.1						9.1		Shamel ash	*Fraxinus uhdei*	25/18	50/35	40% poor	poor to mod	E										Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
493	X			12.4						12.4		Shamel ash	*Fraxinus uhdei*	30/18	45/30	35% poor	poor to mod	W	W									Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
494	X			13.8						13.8		Shamel ash	*Fraxinus uhdei*	30/30	40/40	40% poor	poor											Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
495	X	X		13.0						13.0		Shamel ash	*Fraxinus uhdei*	30/16	26/20	22% very poor	poor	W	W				0 to 8					Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
496	X	X		7.9						7.9		Shamel ash	*Fraxinus uhdei*	25/12	30/20	25% very poor	poor	E										Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
497	X	X		10.2						10.2		Shamel ash	*Fraxinus uhdei*	30/20	25/30	29% very poor	poor	W	W									Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
498	X			11.8						11.8		evergreen pear	*Pyrus kawakamii*	20/20	50/40	44% poor	poor	N		5							Fireblight infection.	Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
499	X	X		4.0						4.0		evergreen pear	*Pyrus kawakamii*	9/6	0/0	0% dead												Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
500	X	X		21.4						21.4		coast redwood	*Sequoia sempervirens*	55/15	0/0	0% dead												0% Dead. High or extreme risk of failure and impact with ground targets within 1 year of 2020. Remove ASAP. This tree may have already been removed or partially removed due to failure, as of April, 2021. REMOVED WITH PERMIT JULY 2021.

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 22.5" multi-stem, or specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
501	X	X		19.0						19.0		coast redwood	*Sequoia sempervirens*	55/15	15/15	15% very poor	very poor										X	Steep slope.	0% Dead. High or extreme risk of failure and impact with ground targets within 1 year of 2020. Remove ASAP. This tree may have already been removed or partially removed due to failure, as of April, 2021.REMOVED WITH PERMIT JULY 2021.
502	X	X		24.4						24.4		coast redwood	*Sequoia sempervirens*	55/12	0/0	0% dead											X		0% Dead. High or extreme risk of failure and impact with ground targets within 1 year of 2020. Remove ASAP. This tree may have already been removed or partially removed due to failure, as of April, 2021. REMOVED WITH PERMIT JULY, 2021.
503	X			6.7						6.7		evergreen pear	*Pyrus kawakamii*	13/14	40/40	40% poor	poor	S							5				Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
504	X			9.9	9.0					18.9		oak species	*Quercus sp.*	35/30	80/50	60% fair	good	S					GR					Steep slope	Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
505	X			32.3						32.3		coast redwood	*Sequoia sempervirens*	50/35	70/70	70% good	moderate										X	Steep slope	Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
506	X			10.0						10.0		evergreen pear	*Pyrus kawakamii*	25/15	40/40	40% poor	poor	E	E			X						Fireblight infection.	Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
507	X	X		7.6						7.6		evergreen pear	*Pyrus kawakamii*	18/15	20/20	20% very poor	very poor	N	N			X						Fireblight infection.	Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
508	X			10.9						10.9		evergreen pear	*Pyrus kawakamii*	25/25	40/30	35% poor	poor	N	N			X						Fireblight infection.	Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
509	X	X		7.2	6.9	5.5				19.6		southern magnolia	*Magnolia grandiflora*	25/15	15/15	15% very poor	very poor	N									X		Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
510	X			28.0						28.0		coast redwood	*Sequoia sempervirens*	60/25	80/80	80% good	good										X		Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
511	X			14.4						14.4		evergreen pear	*Pyrus kawakamii*	20/25	40/50	44% poor	poor					X						Roots damaged on grade. Fireblight infection.	Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
512	X			6.0						6.0		southern magnolia	*Magnolia grandiflora*	15/8	50/30	37% poor	moderate					X					X		Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Mainstems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
513	X			5.6						5.6		southern magnolia	*Magnolia grandiflora*	18/10	40/40	40% poor	poor	E								X		Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
514	X			4.4						4.4		southern magnolia	*Magnolia grandiflora*	18/6	40/40	40% poor	poor	E								X		Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
515	X	X		10.5						10.5		evergreen pear	*Pyrus kawakamii*	25/20	30/30	30% poor	poor	E	E		X						Fireblight infection.	Removed in July, 2021, with permit, per plan, by Vallco Property Owner LLC.
516	X	X		10.6						10.6		evergreen pear	*Pyrus kawakamii*	25/20	30/40	35% poor	poor	E	E		X						Fireblight infection.	20% overall condition "very poor". REMOVED WITH PERMIT JULY, 2021.
517	X	X		6.5						6.5		southern magnolia	*Pyrus kawakamii*	13/7	40/30	30% poor	poor to mod	E					4 to 7					15% overall condition "very poor". REMOVED WITH PERMIT JULY, 2021.
518	X			23.2						23.2		Shamel ash	*Fraxinus uhdei*	50/30	55/60	58% fair	poor to mod	W	W								Out of leaf. Overall condition verify in spring after leafout.	
519		X		7.6						7.6		coast redwood	*Sequoia sempervirens*	40/10	0/0	0% DEAD	n/a											
520																												TREE REMOVED FROM LANDSCAPE
521	X	X		20.2						20.2		Shamel ash	*Fraxinus uhdei*	55/18	30/25	28% very poor	poor	W										
522		X		14.3						14.3		Shamel ash	*Fraxinus uhdei*	35/18	10/10	10% Very Poor	very poor	W						5				
523																												TREE REMOVED FROM LANDSCAPE.
524				10.6						10.6		Chinese elm	*Ulmus parvifolia*	40/30	75/75	75% good	good	E			X							
525				17.6						17.6		Shamel ash	*Fraxinus uhdei*	40/25	35/35	35% poor	poor	W	W									

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-trunk for specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Main Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
526				6.7						6.7		Chinese elm	*Ulmus parvifolia*	18/12	65/50	55% fair	moderate	E			X								
527				8.2						8.2		Shamel ash	*Fraxinus uhdei*	20/15	70/40	55% fair	good	S	S										
528				11.1						11.1		Chinese elm	*Ulmus parvifolia*	25/35	70/60	66% fair	moderate				X								
529				12.7						12.7		Shamel ash	*Fraxinus uhdei*	30/20	45/45	45% poor	poor to mod	W	W										
530				10.4						10.4		Chinese elm	*Ulmus parvifolia*	30/30	75/65	73% good	moderate	S			X								
531				9.2						9.2		Shamel ash	*Fraxinus uhdei*	30/18	50/40	45% poor	W	S											
532				12.3						12.3		Chinese elm	*Ulmus parvifolia*	50/40	65/70	70% good	moderate	SE			X								
533				13.2						13.2		Shamel ash	*Fraxinus uhdei*	30/30	60/60	60% fair	moderate												
534				10.2						10.2		Chinese elm	*Ulmus parvifolia*	40/20	70/60	70% good	good	E			X								
535				20.6						20.6		Shamel ash	*Fraxinus uhdei*	35/35	60/50	55% fair	good												
536		X		12.1						12.1		Shamel ash	*Fraxinus uhdei*	30/20	20/20	20% very poor	very poor												
537				13.1						13.1		Chinese elm	*Ulmus parvifolia*	35/35	60/55	60% fair	moderate	E			X								
538				19.9						19.9		Shamel ash	*Fraxinus uhdei*	35/35	50/45	50% fair	poor to mod												

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1²+2²+3²+4²+5²)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-trunk for most specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Main Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
539				12.7						12.7		Chinese elm	*Ulmus parvifolia*	25/30	75/65	70% good	good	E	E		X							
540				21.9						21.9		Shamel ash	*Fraxinus uhdei*	45/45	65/55	60% fair	moderate					GR						
541				12.5						12.5		Chinese elm	*Ulmus parvifolia*	30/30	60/50	55% fair	moderate				X							
542				13.7						13.7		Shamel ash	*Fraxinus uhdei*	35/25	50/50	50% fair	moderate	W	W									
543				15.2						15.2		Shamel ash	*Fraxinus uhdei*	40/25	55/30	34% poor	moderate	S				GR		5				
544				14.1						14.1		Chinese elm	*Ulmus parvifolia*	40/35	70/60	67% fair	moderate	E	E		X							
545				17.4						17.4		Shamel ash	*Fraxinus uhdei*	40/30	75/55	64% fair	good	W									Tight forks at 8 feet.	
546				11.2						11.2		Chinese elm	*Ulmus parvifolia*	30/35	70/60	66% fair	moderate	E	E		X							
547		X		12.5						12.5		Shamel ash	*Fraxinus uhdei*	40/20	25/25	25% very poor	very poor	W	W			GR						
548																												TREE REMOVED FROM LANDSCAPE.
549				16.3						16.3		Shamel ash	*Fraxinus uhdei*	45/30	65/55	61% fair	moderate	W										
550				17.5						17.5		Shamel ash	*Fraxinus uhdei*	50/30	75/65	70% good	good	W										
551																												TREE REMOVED FROM LANDSCAPE.

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1²+2²+3²+4²+5²)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-stem for most specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Main Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
552				11.2						11.2		Chinese elm	*Ulmus parvifolia*	25/25	60/60	60% fair	moderate	N	N		X							
553				14.2						14.2		Shamel ash	*Fraxinus uhdei*	30/20	75/65	70% good	good	W	W									
554				4.0						4.0		elm species	*Ulmus sp.*	20/10	75/75	75% good	good										Tree out of leaf. ID not verified at time of writing.	
555		X		9.8						9.8		Shamel ash	*Fraxinus uhdei*	20/15	10/10	10% very poor	very poor						0 to 10					
556				16.8						16.8		Shamel ash	*Fraxinus uhdei*	30/30	55/60	59% fair	moderate						0 to 1				Vehicle impact scar.	
557				12.9						12.9		Shamel ash	*Fraxinus uhdei*	50/25	35/35	35% poor	poor	W	W									
558				13.8						13.8		Chinese elm	*Ulmus parvifolia*	35/35	75/70	73% good	good	N	N		X							
559				15.9						15.9		Shamel ash	*Fraxinus uhdei*	50/25	55/50	54% fair	poor to mod	W										
560				11.5						11.5		Chinese elm	*Ulmus parvifolia*	30/30	65/70	68% fair	moderate	E			X							
561				13.7						13.7		Chinese elm	*Ulmus parvifolia*	30/30	70/50	60% fair	good	N			X							
562				13.8						13.8		Shamel ash	*Fraxinus uhdei*	30/30	40/35	38% poor	poor	N								X		
563																												TREE REMOVED FROM LANDSCAPE.
564		X		14.8						14.8		Shamel ash	*Fraxinus uhdei*	35/25	25/20	23% very poor	very poor	W	W									

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565																												TREE REMOVED FROM LANDSCAPE.
566	X			17.5						17.5		Shamel ash	*Fraxinus uhdei*	45/35	40/40	40% poor	moderate	W	W									
567		X		16.2						16.2		Shamel ash	*Fraxinus uhdei*	30/15	25/25	25% very poor	very poor											
568				18.0						18.0		Shamel ash	*Fraxinus uhdei*	45/35	75/65	70% good	good	W										
569				13.5						13.5		Shamel ash	*Fraxinus uhdei*	30/25	70/65	68% fair	good	W										
570				12.7						12.7		Shamel ash	*Fraxinus uhdei*	18/10	50/30	40% poor	moderate	W	W		X							
571				22.7						22.7		coast redwood	*Sequoia sempervirens*	55/20	60/60	60% fair	moderate										X	50% overall condition "fair".
572				31.6						31.6		coast redwood	*Sequoia sempervirens*	55/20	60/45	55% fair	moderate								25		X	60% overall condition "fair".
573				16.5						16.5		coast redwood	*Sequoia sempervirens*	50/15	60/50	53% fair	moderate										X	37% overall condition "poor".
574				25.6						25.6		coast redwood	*Sequoia sempervirens*	55/15	60/60	60% fair	moderate										X	48% overall condition "poor".
575				12.0						12.0		coast redwood	*Sequoia sempervirens*	35/10	60/40	47% poor	moderate										X	35% overall condition "poor".
576				32.1	13.4	12.2				57.7		coast redwood	*Sequoia sempervirens*	55/25	70/70	70% good	poor										X	55% overall condition "fair".
577				27.6						27.6		coast redwood	*Sequoia sempervirens*	50/15	40/30	35% poor	poor							various elevations			X	45% overall condition "poor".

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578				17.1						17.1		coast redwood	*Sequoia sempervirens*	50/12	60/60	60% fair	moderate									X		50% overall condition "fair".
579				17.7						17.7		coast redwood	*Sequoia sempervirens*	50/12	65/65	65% fair	moderate									X		40% overall condition "poor".
580				31.5	9.0					40.5		coast redwood	*Sequoia sempervirens*	60/20	75/75	75% good	moderate									X		55% overall condition "fair".
581				21.5	10.5					32.0		coast redwood	*Sequoia sempervirens*	60/15	60/60	60% fair	moderate									X		45% overall condition "poor".
582				31.7						31.7		coast redwood	*Sequoia sempervirens*	70/25	80/80	80% good	good									X		60% overall condition "fair".
583		X		8.3						8.3		coast redwood	*Sequoia sempervirens*	35/6	20/20	20% very poor	very poor									X		20% overall condition "very poor".
584				26.9						26.9		coast redwood	*Sequoia sempervirens*	70/20	65/65	65% fair	moderate									X		60% overall condition "fair".
585				15.9	7.3					23.2		coast redwood	*Sequoia sempervirens*	50/15	65/65	65% fair	moderate									X		50% overall condition "fair".
586				25.3						25.3		coast redwood	*Sequoia sempervirens*	50/13	65/65	65% fair	moderate									X		45% overall condition "poor".
587				19.9						19.9		coast redwood	*Sequoia sempervirens*	50/14	65/65	65% fair	moderate									X		52% overall condition "fair".
588				21.0						21.0		coast redwood	*Sequoia sempervirens*	50/12	60/60	60% fair	moderate									X		47% overall condition "poor".
589				23.3						23.3		coast redwood	*Sequoia sempervirens*	60/12	65/65	65% fair	moderate									X		62% overall condition "fair".
590				25.5	5.0					30.5		coast redwood	*Sequoia sempervirens*	60/10	30/40	35% poor	poor									X		35% overall condition "poor".

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Revised 3/23/2022 by WLCA

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591				21.2						21.2		coast redwood	*Sequoia sempervirens*	55/10	50/40	45% poor	poor									X		50% overall condition "fair".
592		X		25.0						25.0		coast redwood	*Sequoia sempervirens*	60/8	25/35	28% very poor	very poor									X		50% fair as of 7/28/2020.
593				14.4						14.4		coast redwood	*Sequoia sempervirens*	40/10	30/30	30% poor	poor to mod		S				0 to 5			X		40% poor as of 7/28/2020.
594				18.1						18.1		coast redwood	*Sequoia sempervirens*	50/13	65/55	50% fair	moderate									X		50% fair as of 7/28/2020.
595				19.2						19.2		coast redwood	*Sequoia sempervirens*	25/15	40/25	30% poor	moderate			25 (apical meristem)						X		50% fair as of 7/28/2020.
596				12.8						12.8		coast redwood	*Sequoia sempervirens*	55/8	50/40	45% poor	poor to mod		S							X		20% very poor as of 7/28/2020.
597		X		12.7	8.3					21.0		coast redwood	*Sequoia sempervirens*	35/10	0/0	0% dead	dead							1		X		Dead as of 7/28/2020. Removed at request of neighbor, in January, 2021. City took 6 months to issue removal permit.
598		X		19.5						19.5		coast redwood	*Sequoia sempervirens*	50/6	30/10	20% very poor	very poor									X	Shear crack through the mainstem longitudinally.	May be as high as 40% poor as of 7/28/2020. But shear crack downgrades condition rating.
599				27.0						27.0		coast redwood	*Sequoia sempervirens*	75/25	65/65	65% fair	moderate									X		50% fair as of 7/28/2020.
600				18.8						18.8		coast redwood	*Sequoia sempervirens*	65/8	50/40	45% poor	poor	W								X	Canker developing on trunk at 5 feet elevation.	30% poor as of 7/28/2020.
601				25.5						25.5		coast redwood	*Sequoia sempervirens*	70/14	40/40	40% poor	poor									X		30% poor as of 7/28/2020.
602				13.7	7.7					21.4		coast redwood	*Sequoia sempervirens*	40/9	40/30	35% poor						BRC				X		30% overall condition "poor".
603		X		17.3						17.3		coast redwood	*Sequoia sempervirens*	50/15	25/25	25% very poor	very poor									X		25% overall condition "very poor".

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604		X		16.7						16.7		coast redwood	*Sequoia sempervirens*	50/12	25/25	25% very poor	very poor		W								X		25% overall condition "very poor".
605		X		6.6						6.6		coast redwood	*Sequoia sempervirens*	35/7	25/25	25% very poor	very poor										X		0% (Dead)
606		X		26.4						26.4		coast redwood	*Sequoia sempervirens*	60/18	20/30	25% very poor	poor										X	Codominant mainstem fork at 20 feet.	25% overall condition "very poor".
607		X		15.4						15.4		coast redwood	*Sequoia sempervirens*	55/10	15/20	17% very poor	very poor										X		15% overall condition "very poor".
608		X		22.4						22.4		coast redwood	*Sequoia sempervirens*	60/14	30/30	30% poor	poor	W									X		27% overall condition "very poor".
609				27.1						27.1		coast redwood	*Sequoia sempervirens*	70/18	35/35	35% poor	poor										X		30% overall condition "poor".
610		X		13.0						13.0		coast redwood	*Sequoia sempervirens*	30/8	40/20	28% very poor	poor to mod										X		25% overall condition "very poor".
611				39.4						39.4		coast redwood	*Sequoia sempervirens*	75/15	70/70	70% good	good										X	Cankers on trunk at 6 feet.	75% overall condition "good". Tree was severely pruned by property owner to the west, which removed all of the westward facing scaffold limbs. Health and structural ratings are now significantly reduced below the condition rating noted above.
612		X		8.0						8.0		coast redwood	*Sequoia sempervirens*	25/4	0/0	0% dead	dead										X		0% (Dead) Tree was severely pruned by property owner to the west, which removed all of the westward facing scaffold limbs. REMOVED AS OF OCTOBER 2018.
613				26.5						26.5		coast redwood	*Sequoia sempervirens*	75/18	75/75	75% good	good										X		65% overall condition "fair". Tree was severely pruned by property owner to the west, which removed all of the westward facing scaffold limbs. Health and structural ratings are now significantly reduced below the condition
614				32.3						32.3		coast redwood	*Sequoia sempervirens*	65/15	70/70	70% good	mod to good										X		60% overall condition "fair". Tree was severely pruned by property owner to the west, which removed all of the westward facing scaffold limbs. Health and structural ratings are now significantly reduced below the condition
615				15.4						15.4		coast redwood	*Sequoia sempervirens*	50/10	50/50	50% fair	poor										X		40% overall condition "poor". Tree was severely pruned by property owner to the west, which removed all of the westward facing scaffold limbs. Health and structural ratings are now significantly

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-trunk, or most specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
616				24.4						24.4		coast redwood	*Sequoia sempervirens*	65/11	55/50	53% fair	mod										X		47% overall condition "poor". Tree was severely pruned by property owner to the west, which removed all of the westward facing scaffold limbs. Health and structural ratings are now significantly reduced below the condition
617				10.1						10.1		coast redwood	*Sequoia sempervirens*	25/9	65/45	55% fair	mod										X		40% overall condition "poor". Tree was severely pruned by property owner to the west, which removed all of the westward facing scaffold limbs. Health and structural ratings are now significantly reduced below the condition
618				26.7						26.7		coast redwood	*Sequoia sempervirens*	70/18	55/60	58% fair	poor to mod										X		55% overall condition "fair". Tree was severely pruned by property owner to the west, which removed all of the westward facing scaffold limbs. Health and structural ratings are now significantly reduced below the condition
619				12.5						12.5		coast redwood	*Sequoia sempervirens*	45/10	50/40	50% fair	moderate										X		40% overall condition "poor". Tree was severely pruned by property owner to the west, which removed all of the westward facing scaffold limbs. Health and structural ratings are now significantly reduced below the condition
620				15.3						15.3		coast redwood	*Sequoia sempervirens*	35/10	50/40	50% fair	moderate										X		50% overall condition "poor". Tree was severely pruned by property owner to the west, which removed all of the westward facing scaffold limbs. Health and structural ratings are now significantly reduced below the condition
621				12.6						12.6		coast redwood	*Sequoia sempervirens*	45/11	60/50	55% fair	moderate										X		55% overall condition "fair". Tree was severely pruned by property owner to the west, which removed all of the westward facing scaffold limbs. Health and structural ratings are now significantly reduced below the condition
622				23.4						23.4		coast redwood	*Sequoia sempervirens*	75/15	50/50	50% fair	poor										X		55% overall condition "fair".
623				25.1						25.1		coast redwood	*Sequoia sempervirens*	75/15	50/50	50% fair	poor										X		57% overall condition "fair".
624				15.9						15.9		coast redwood	*Sequoia sempervirens*	70/12	50/40	49% poor	poor										X		50% overall condition "fair".
625				19.7	6.4					26.1		coast redwood	*Sequoia sempervirens*	65/10	50/50	50% fair	poor										X		50% overall condition "fair".
626				19.6						19.6		coast redwood	*Sequoia sempervirens*	60/10	60/50	55% fair	poor to mod										X		50% overall condition "fair".
627				22.9						22.9		coast redwood	*Sequoia sempervirens*	75/12	60/50	53% fair	poor										X		60% overall condition "fair".
628		X		14.1						14.1		coast redwood	*Sequoia sempervirens*	45/8	20/30	25% very poor	very poor										X		I recommend tree be removed at this time. October 2018 (WLCA). SHPCO will remove

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629		X		11.9						11.9		coast redwood	*Sequoia sempervirens*	45/7	10/10	10% very poor	very poor									X		0% (Dead). TREE REMOVED AS OF OCTOBER 2018.
630		X		12.0						12.0		coast redwood	*Sequoia sempervirens*	35/10	35/35	35% poor	poor									X		25% overall condition "very poor".
631		X		16.2						16.2		coast redwood	*Sequoia sempervirens*	45/15	20/20	20% very poor	very poor							25		X		20% overall condition "very poor".
632				15.5						15.5		coast redwood	*Sequoia sempervirens*	50/18	40/30	35% poor	poor to mod							30		X		30% overall condition "poor".
633		X		9.3						9.3		coast redwood	*Sequoia sempervirens*	40/10	35/35	35% poor	poor									X		20% overall condition "very poor". TREE REMOVED AS OF OCTOBER 2018.
634		X		11.5						11.5		coast redwood	*Sequoia sempervirens*	50/12	20/20	20% very poor	very poor									X		10% overall condition "very poor".
635		X		18.4						18.4		coast redwood	*Sequoia sempervirens*	50/12	10/10	10% very poor	very poor									X		0% (Dead)
636		X		20.9						20.9		coast redwood	*Sequoia sempervirens*	70/18	25/25	25% very poor	very poor									X		18% overall condition (very poor).
637		X		13.8						13.8		coast redwood	*Sequoia sempervirens*	50/15	25/25	25% very poor	very poor									X	One of two mainstems was removed at grade.	5% overall condition (very poor).
638				27.9						27.9		coast redwood	*Sequoia sempervirens*	80/25	75/75	75% good	mod to good									X		68% overall condition (fair).
639		X		10.8						10.8		coast redwood	*Sequoia sempervirens*	35/8	25/25	25% very poor	very poor									X	Difficult to assess visually.	18% overall condition "very poor".
640				21.1						21.1		coast redwood	*Sequoia sempervirens*	70/12	40/40	40% poor	poor	W								X		30% overall condition "poor".
641				19.6						19.6		coast redwood	*Sequoia sempervirens*	60/12	65/55	60% fair	moderate		N							X		45% overall condition "poor".

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642				30.3						30.3		coast redwood	*Sequoia sempervirens*	75/20	50/50	50% fair	moderate										X		42% overall condition "poor".
643				24.3						24.3		coast redwood	*Sequoia sempervirens*	70/18	60/55	56% fair	moderate										X		50% overall condition "fair".
644				11.1						11.1		coast redwood	*Sequoia sempervirens*	55/12	50/50	50% fair	poor										X		40% overall condition "poor".
645				22.8						22.8		coast redwood	*Sequoia sempervirens*	70/12	40/35	39% poor	poor										X		25% overall condition "very poor". Tree reqwuires a Root Crown Excavation (RCX).
646		X		14.8	7.5					22.3		coast redwood	*Sequoia sempervirens*	50/10	45/20	27% very poor	poor	W									X	S-trunk form at certain heights.	24% overall condition "very poor".
647				31.5						31.5		coast redwood	*Sequoia sempervirens*	75/25	80/80	80% good	good										X		70% overall condition "good".
648		X		4.9						4.9		coast redwood	*Sequoia sempervirens*	25/5	30/30	30% poor	poor		S								X		17% overall condition "very poor".
649				25.7						25.7		coast redwood	*Sequoia sempervirens*	65/12	50/50	50% fair	moderate										X		50% overall condition "fair".
650				22.4						22.4		coast redwood	*Sequoia sempervirens*	65/16	50/50	50% fair	moderate										X		50% overall condition "fair".
651				29.6						29.6		coast redwood	*Sequoia sempervirens*	70/20	60/40	55% fair	moderate										X		67% overall condition "fair".
652				15.9						15.9		coast redwood	*Sequoia sempervirens*	65/16	40/40	40% poor	poor										X		45% overall condition "poor".
653		X		16.0						16.0		coast redwood	*Sequoia sempervirens*	60/10	20/20	20% very poor	very poor										X		0% (Dead)
654		X		20.5						20.5		coast redwood	*Sequoia sempervirens*	55/6	30/15	20% very poor	very poor										X		16% overall condition "very poor".

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655				25.0	10.0					35.0		coast redwood	*Sequoia sempervirens*	70/15	50/50	50% fair	poor to mod								3		X		50% overall condition "fair".
656				27.3						27.3		coast redwood	*Sequoia sempervirens*	75/15	60/40	50% fair	poor to mod								6		X		56% overall condition "fair".
657				19.8						19.8		coast redwood	*Sequoia sempervirens*	70/15	45/45	45% poor	poor	W									X		48% overall condition "poor".
658				30.8						30.8		coast redwood	*Sequoia sempervirens*	70/18	30/35	30% poor	poor								4 to 8		X		45% overall condition "poor".
659		X		10.0						10.0		coast redwood	*Sequoia sempervirens*	35/4	0/0	0% dead	dead										X		0% (Dead)
660		X		23.0						23.0		coast redwood	*Sequoia sempervirens*	70/15	30/20	25% very poor	very poor										X	S-trunk form between 60 and 65 feet elevation.	30% overall condition "poor".
661		X		12.4						12.4		coast redwood	*Sequoia sempervirens*	30/8	50/30	35% poor	moderate								20		X		28% overall condition "very poor".
662				17.7						17.7		coast redwood	*Sequoia sempervirens*	50/15	60/45	50% fair	moderate										X		50% overall condition "fair".
663				11.2						11.2		coast redwood	*Sequoia sempervirens*	50/10	55/50	50% fair	poor to mod										X		40% overall condition "poor".
664				11.0						11.0		coast redwood	*Sequoia sempervirens*	50/10	50/50	50% fair	poor										X		40% overall condition "poor".
665				20.4						20.4		coast redwood	*Sequoia sempervirens*	65/18	60/55	58% fair	moderate										X		59% overall condition "fair".
666				20.9						20.9		coast redwood	*Sequoia sempervirens*	70/25	40/50	45% poor	poor										X		45% overall condition "poor".
667				16.7						16.7		coast redwood	*Sequoia sempervirens*	65/18	40/50	45% poor	poor										X		40% overall condition "poor".

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668				9.1						9.1		coast redwood	*Sequoia sempervirens*	40/7	30/35	35% poor	poor									X		30% overall condition "poor".
669		X		9.9						9.9		coast redwood	*Sequoia sempervirens*	40/7	30/30	30% poor	poor									X	This tree has a PG&E guy strap around its trunk which may eventually girdle the stem, possibly causing loss of stability within the stem cross section.	10% overall condition "very poor".
670		X		10.7						10.7		coast redwood	*Sequoia sempervirens*	40/6	20/20	20% very poor	very poor									X		15% overall condition "very poor".
671		X		7.1						7.1		coast redwood	*Sequoia sempervirens*	30/6	25/25	25% very poor	very poor									X		15% overall condition "very poor".
672		X		14.9						14.9		coast redwood	*Sequoia sempervirens*	50/12	40/40	40% poor	poor									X		25% overall condition "very poor".
673				22.2						22.2		Shamel ash	*Fraxinus uhdei*	50/25	30/35	33% poor	poor									X		WLCA suggests monitoring for continued decline in vigor. 2020.
674				24.2						24.2		Shamel ash	*Fraxinus uhdei*	55/25	35/40	36% poor	poor									X		WLCA suggsts that we remove this tree for safety purposes. 2020.
675		X		15.0						15.0		Shamel ash	*Fraxinus uhdei*	50/15	20/30	25% very poor	very poor						At all elevations .			X		
676				16.6						16.6		Shamel ash	*Fraxinus uhdei*	65/18	30/30	30% poor	very poor							Various elevations		X		
677		X		17.6						17.6		Shamel ash	*Fraxinus uhdei*	65/18	10/10	10% very poor	very poor						At all elevations .			X		
678				13.4						13.4		Shamel ash	*Fraxinus uhdei*	60/18	45/45	45% poor	poor to mod	E								X		WLCA suggests considering removal of tree in 2020.
679				12.7						12.7		Shamel ash	*Fraxinus uhdei*	50/14	40/30	35% poor	poor	E					6			X		Removed in January 2019 due to requirement to move PGE high voltage underground vault and associated conduit toward this tree.
680				15.6						15.6		Shamel ash	*Fraxinus uhdei*	60/25	50/35	40% poor	poor to mod	E								X		WLCA suggests considering removal of tree in 2020.

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681				17.3						17.3		Shamel ash	*Fraxinus uhdei*	65/25	45/45	45% poor	moderate	E									X		
682				14.2						14.2		Shamel ash	*Fraxinus uhdei*	50/25	45/30	35% poor	poor to mod	E							9		X		
683		X		18.7						18.7		Shamel ash	*Fraxinus uhdei*	65/30	25/10	15% very poor	very poor	E	E					5 to 6			X	Possible destabilized root plate. High risk tree. Remove.	
684	X	X		12.2						12.2		Shamel ash	*Fraxinus uhdei*	50/20	15/15	15% very poor	very poor										X		Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tighlined against the road curb in a north-south orientation, thereby avoiding severe root loss to the remaining redwoods at property line.
685	X	X		10.5						10.5		Shamel ash	*Fraxinus uhdei*	45/20	15/15	15% very poor	very poor	E	E								X		Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tighlined against the road curb in a north-south orientation, thereby avoiding severe root loss to the remaining redwoods at property line.
686	X			4.0						4.0		coast redwood	*Sequoia sempervirens*	15/6	50/50	50% fair	moderate										X		Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tighlined against the road curb in a north-south orientation, thereby avoiding severe root loss to the remaining redwoods at property line.
687	X			11.4						11.4		Shamel ash	*Fraxinus uhdei*	45/25	40/35	37% poor	poor to mod	E	E								X		Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tighlined against the road curb in a north-south orientation, thereby avoiding severe root loss to the remaining redwoods at property line.
688	X			4.5						4.5		coast redwood	*Sequoia sempervirens*	20/8	70/70	70% good	moderate										X		Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tighlined against the road curb in a north-south orientation, thereby avoiding severe root loss to the remaining redwoods at property line.
689	X	X		15.9						15.9		Shamel ash	*Fraxinus uhdei*	65/20	10/10	10% very poor	very poor	E	E								X		Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tighlined against the road curb in a north-south orientation, thereby avoiding severe root loss to the remaining redwoods at property line.

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Mainstems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
690	X			4.9						4.9		coast redwood	*Sequoia sempervirens*	18/6	70/70	70% good	moderate									X		Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tighlined against the road curb in a north-south orientation, thereby avoiding severe root loss to the remaining redwoods at property line.
691	X	X		10.8						10.8		Shamel ash	*Fraxinus uhdei*	35/25	15/15	15% very poor	very poor	E			X					X		Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tighlined against the road curb in a north-south orientation, thereby avoiding severe root loss to the remaining redwoods at property line.
692	X			22.5						22.5		Shamel ash	*Fraxinus uhdei*	75/35	65/50	58% fair	mod to good	E	E							X		Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tighlined against the road curb in a north-south orientation, thereby avoiding severe root loss to the remaining redwoods at property line.
693	X			28.0						28.0		Shamel ash	*Fraxinus uhdei*	70/40	65/50	57% fair	mod to good	E	E					9		X		Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tighlined against the road curb in a north-south orientation, thereby avoiding severe root loss to the remaining redwoods at property line.
694	X			21.3						21.3		Shamel ash	*Fraxinus uhdei*	70/35	40/40	40% poor	poor							18		X		Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tighlined against the road curb in a north-south orientation, thereby avoiding severe root loss to the remaining redwoods at property line.
695	X			28.3						28.3		Shamel ash	*Fraxinus uhdei*	70/35	60/50	55% fair	moderate	E	E							X	Roots severed with decay, on west side of root system.	Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tighlined against the road curb in a north-south orientation, thereby avoiding severe root loss to the remaining redwoods at property line.
696	X			23.9						23.9		Shamel ash	*Fraxinus uhdei*	75/30	50/50	50% fair	poor to mod	E								X		Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tighlined against the road curb in a north-south orientation, thereby avoiding severe root loss to the remaining redwoods at property line.
697	X			25.3						25.3		Shamel ash	*Fraxinus uhdei*	75/30	45/35	43% poor	poor to mod	E				GR		11		X		Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tighlined against the road curb in a north-south orientation, thereby avoiding severe root loss to the remaining redwoods at property line.

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Mainstems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
698	X	X		8.2						8.2		coast redwood	*Sequoia sempervirens*	28/10	55/60	55% fair	poor to mod									X		Removed and stumps ground down, as of January, 2021, per permit, to allow for new utility trenching to be tighlined against the road curb in a north-south orientation, thereby avoiding severe root loss to the remaining redwoods at property line.
699	X	X		8.4						8.4		coast redwood	*Sequoia sempervirens*	28/10	0/0	0% dead	dead									X		0% (Dead). REMOVED AS OF OCTOBER., 2018.
700	X	X		7.5						7.5		coast redwood	*Sequoia sempervirens*	28/10	0/0	0% dead	dead									X		0% (Dead). REMOVED AS OF OCTOBER., 2018.
701	X	X		8.2						8.2		coast redwood	*Sequoia sempervirens*	25/7	40/40	40% poor	poor									X		0% (Dead). REMOVED AS OF OCTOBER., 2018.
702	X	X		8.1						8.1		coast redwood	*Sequoia sempervirens*	25/7	10/10	10% very poor	very poor									X		0% (Dead). REMOVED AS OF OCTOBER., 2018.
703	X			20.3						20.3		coast redwood	*Sequoia sempervirens*	40/20	40/40	40% poor	poor to mod									X		50% overall condition "fair".
704		X		11.3						11.3		coast redwood	*Sequoia sempervirens*	30/8	0/0	0% dead	dead									X		0% (Dead).
705		X		10.3						10.3		coast redwood	*Sequoia sempervirens*	30/4	5/5	5% very poor	very poor									X		4% overall condition "very poor". REMOVED AS OF OCTOBER, 2018.
706		X		11.0						11.0		coast redwood	*Sequoia sempervirens*	30/8	10/10	10% very poor	very poor						1			X		13% overall condition "very poor". WLCA suggests removal in 2020.
707		X		5.8						5.8		coast redwood	*Sequoia sempervirens*	25/6	10/10	10% very poor	very poor									X		7% overall condition "very poor". WLCA suggests removal in 2020.
708		X		11.5						11.5		coast redwood	*Sequoia sempervirens*	30/8	40/40	40% poor	poor									X		15% overall condition "very poor". WLCA suggests removal in 2020.
709																												TREE REMOVED FROM LANDSCAPE.
710				12.3						12.3		coast redwood	*Sequoia sempervirens*	35/8	40/40	40% poor										X		35% overall condition "poor".

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711		X		11.3						11.3		coast redwood	*Sequoia sempervirens*	40/4	10/10	10% very poor	very poor									X		0% (Dead). WLCA suggests removal 2020.
712				8.4						8.4		coast redwood	*Sequoia sempervirens*	30/8	30/30	30% poor	poor									X		30% overall condition "poor".
713				11.4						11.4		coast redwood	*Sequoia sempervirens*	35/6	40/40	40% poor	poor									X		40% overall condition "poor".
714		X		7.3						7.3		coast redwood	*Sequoia sempervirens*	30/6	15/15	15% very poor	very poor									X		POTENTIAL REMOVAL PER WLCA.
715				19.5						19.5		coast redwood	*Sequoia sempervirens*	50/15	45/45	45% poor	poor									X		35% overall condition "poor".
716		X		4.3						4.3		coast redwood	*Sequoia sempervirens*	17/5	0/0	0% dead	dead									X		POTENTIAL REMOVAL PER WLCA.
717		X		10.1						10.1		coast redwood	*Sequoia sempervirens*	30/7	20/20	20% very poor	very poor									X		removed by SHPCO in 2017, DEAD.
718		X		7.0						7.0		coast redwood	*Sequoia sempervirens*	20/4	0/0	0% dead	dead									X		removed by SHPCO in 2017, DEAD.
719		X		11.4						11.4		coast redwood	*Sequoia sempervirens*	40/15	0/0	0% dead	dead									X		removed by SHPCO in 2017, DEAD.
720	X	X		9.1						9.1		coast redwood	*Sequoia sempervirens*	50/7	0/0	0% dead	dead									X		removed by shpco 2019 due to death of tree.
721		X		15.3						15.3		coast redwood	*Sequoia sempervirens*	50/12	10/10	10% very poor	very poor									X		POTENTIAL REMOVAL PER WLCA.
722		X		11.5						11.5		coast redwood	*Sequoia sempervirens*	50/10	20/20	20% very poor	very poor									X		POTENTIAL REMOVAL PER WLCA.
723	X			21.0						21.0		Monterey pine	*Pinus radiata*	55/20	50/40	48% poor	moderate	E	E							X		40% overall condition "poor". Being removed December 2018 for trenching PG&E electrical.

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724		X		13.9						13.9		coast redwood	*Sequoia sempervirens*	50/9	15/15	15% very poor	very poor										X		POTENTIAL REMOVAL PER WLCA.
725		X		22.0						22.0		Monterey pine	*Pinus radiata*	55/25	35/40	38% poor	poor										X		Tree removed as of 2014 by SHPCO due to property owner to west request in order to stop leaf litter from dropping into his swimming pool.
726		X		20.9						20.9		Monterey pine	*Pinus radiata*	50/25	30/25	28% very poor	very poor	SE	SE								X		Tree removed as of 2014 by SHPCO due to property owner to west request in order to stop leaf litter from dropping into his swimming pool.
727		X		13.5						13.5		coast redwood	*Sequoia sempervirens*	50/12	40/25	30% poor	poor										X		15% overall condition "very poor".
728	X	X		12.8						12.8		coast redwood	*Sequoia sempervirens*	45/10	10/15	13% very poor	very poor	E									X		removed by SHPCO in 2017, DEAD.
729				9.0						9.0		coast redwood	*Sequoia sempervirens*	40/5	60/30	45% poor	moderate										X		35% overall condition "poor".
730				14.0						14.0		coast redwood	*Sequoia sempervirens*	50/9	50/50	50% fair	moderate										X	Difficult to assess visually.	40% overall condition "poor".
731	X	X		14.7						14.7		Shamel ash	*Fraxinus uhdei*	55/25	25/25	25% very poor	very poor	E	E								X		
732	X	X		24.3						24.3		Shamel ash	*Fraxinus uhdei*	55/25	25/25	25% very poor	very poor	E					GR		7		X		Removed by SHPCO between 2014 and 2017 either due to tree death or due to property owner to west requesting removal to stop leaf litter falling into swimming pool.
733	X			19.2						19.2		Shamel ash	*Fraxinus uhdei*	55/30	40/35	38% poor	poor	E						1 foot (car impact)			X		Removed by SHPCO between 2014 and 2017 either due to tree death or due to property owner to west requesting removal to stop leaf litter falling into swimming pool.
734				17.1						17.1		Shamel ash	*Fraxinus uhdei*	45/30	35/35	35% poor	poor										X	Circling roots. Roots damaged on grade.	WLCA suggests monitoring for decline and/or instability. 2020.
735		X		17.5						17.5		Shamel ash	*Fraxinus uhdei*	55/25	20/20	20% very poor	very poor	E						1 foot (car impact)			X		WLCA suggests monitoring for decline and/or instability. 2020.
736		X		19.1						19.1		Shamel ash	*Fraxinus uhdei*	45/35	25/25	25% very poor	very poor							Various elevations.			X		WLCa suggests monitoring for decline. Potential removal tree.

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737				20.7						20.7		Shamel ash	*Fraxinus uhdei*	55/30	30/40	35% poor	poor	E							20		X	Roots severed and damaged on grade.	WLCa suggests monitoring for decline. Potential removal tree.
738				21.7						21.7		Shamel ash	*Fraxinus uhdei*	50/30	40/40	40% poor	poor	S				GR				X		WLCa suggests monitoring for decline. Potential removal tree.
739	X			23.7						23.7		Shamel ash	*Fraxinus uhdei*	65/30	25/25	25% very poor	very poor	E								X		WLCa suggests monitoring for decline or instability. Potential removal tree.
740				26.0						26.0		Shamel ash	*Fraxinus uhdei*	45/35	65/50	56% fair	good				X	GR			X	X		
741				24.5						24.5		Shamel ash	*Fraxinus uhdei*	50/30	40/40	40% poor	poor				X				X	X		
742				27.2						27.2		Shamel ash	*Fraxinus uhdei*	50/30	50/40	48% poor	moderate							Various elevations	X	X		
743				30.1						30.1		Shamel ash	*Fraxinus uhdei*	50/40	60/45	50% fair	moderate								X	X		
744	X			25.2						25.2		Shamel ash	*Fraxinus uhdei*	55/30	50/40	45% poor	moderate				X				X	X	Roots pruned near mainstem.	
745	X			14.2						14.2		Shamel ash	*Fraxinus uhdei*	30/20	35/30	35% poor	poor				X		9		X	X		
746				24.1						24.1		Shamel ash	*Fraxinus uhdei*	50/25	60/50	55% fair	moderate	E			X					X		
747				18.6						18.6		Shamel ash	*Fraxinus uhdei*	60/25	60/30	38% poor	moderate	E				GR		various elevations		X		
748				21.7						21.7		Shamel ash	*Fraxinus uhdei*	55/30	50/45	49% poor	moderate	E				GR serious condition.				X		
749				16.0						16.0		Shamel ash	*Fraxinus uhdei*	50/20	30/30	30% poor	poor	E			X					X		

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750				17.3						17.3		Shamel ash	*Fraxinus uhdei*	50/25	40/40	40% poor	poor	E									X		
751				15.8						15.8		Shamel ash	*Fraxinus uhdei*	55/25	25/25	25% very poor	poor	E	E								X	Circling roots.	
752				18.5						18.5		Shamel ash	*Fraxinus uhdei*	55/30	55/45	50% fair	moderate	E	E				8				X		
753				19.8						19.8		Shamel ash	*Fraxinus uhdei*	50/30	50/45	49% poor	poor	E	E								X		
754				21.8						21.8		Shamel ash	*Fraxinus uhdei*	65/25	55/40	45% poor	moderate	E	E		X	GR					X		
755				20.1						20.1		Shamel ash	*Fraxinus uhdei*	55/25	60/50	55% fair	moderate	E									X		
756				18.1						18.1		Shamel ash	*Fraxinus uhdei*	60/30	50/45	49% poor	poor to mod	E	E			GR	6				X		
757				16.8						16.8		Shamel ash	*Fraxinus uhdei*	60/25	40/40	40% poor	poor							8			X		
758		X		19.3						19.3		Shamel ash	*Fraxinus uhdei*	55/30	25/25	25% very poor	very poor	E	E								X		
759				18.2						18.2		Shamel ash	*Fraxinus uhdei*	60/30	35/35	35% poor	poor	E	E								X		
760				20.8						20.8		Shamel ash	*Fraxinus uhdei*	60/35	40/30	35% poor	poor	E	E								X		
761				15.4						15.4		Shamel ash	*Fraxinus uhdei*	50/30	60/35	40% poor	moderate	E	E					8			X		
762				17.1						17.1		Shamel ash	*Fraxinus uhdei*	50/35	35/35	35% poor						GR					X		

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763		X		23.5						23.5		Shamel ash	*Fraxinus uhdei*	65/35	15/15	15% very poor	very poor	E							9		X		
764		X		13.6						13.6		Shamel ash	*Fraxinus uhdei*	50/20	10/10	10% very poor	very poor	E									X		
765				16.0						16.0		Shamel ash	*Fraxinus uhdei*	50/25	30/30	30% poor	poor	E	E								X		
766				18.5						18.5		Shamel ash	*Fraxinus uhdei*	50/30	40/40	40% poor	poor	E	E			GR					X		
767				18.8						18.8		Shamel ash	*Fraxinus uhdei*	60/30	35/45	40% poor	poor	E	E								X		
768		X		14.5						14.5		Shamel ash	*Fraxinus uhdei*	55/30	20/20	20% very poor	very poor	E	E								X	Roots damaged on grade.	
769				23.8						23.8		Shamel ash	*Fraxinus uhdei*	65/35	55/35	40% poor	moderate	E	E			serious girdling root			15		X		
770				16.3						16.3		Shamel ash	*Fraxinus uhdei*	55/25	30/30	30% poor	poor	E							10		X		
771	X			16.1						16.1		Shamel ash	*Fraxinus uhdei*	55/30	60/45	55% fair	moderate	E									X		
772				33.6						33.6		coast redwood	*Sequoia sempervirens*	75/20	70/70	70% good	moderate										X		75% overall condition "good".
773				16.4						16.4		coast redwood	*Sequoia sempervirens*	60/13	60/60	60% fair	moderate										X		50% overall condition "fair"
774				18.5						18.5		coast redwood	*Sequoia sempervirens*	60/15	75/60	67% fair	moderate										X		60% overall condition "fair"
775				10.7						10.7		coast redwood	*Sequoia sempervirens*	30/6	60/50	55% fair	moderate										X		40% overall condition "poor"

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Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-trunk for most specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Main Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
776				34.2						34.2		coast redwood	*Sequoia sempervirens*	75/25	70/70	70% good	moderate									X		75% overall condition "good".
777		X		7.8						7.8		coast redwood	*Sequoia sempervirens*	25/6	55/35	40% poor	moderate	W	W							X		20% overall condition "very poor"
778				28.8						28.8		coast redwood	*Sequoia sempervirens*	75/25	70/70	70% good	moderate									X		75% overall condition "good".
779				16.8						16.8		coast redwood	*Sequoia sempervirens*	50/13	65/55	60% fair	moderate									X		75% overall condition "good".
780		X		7.0						7.0		coast redwood	*Sequoia sempervirens*	35/6	55/35	45% poor	moderate									X		28% overall condition "very poor"
781				21.6						21.6		coast redwood	*Sequoia sempervirens*	65/15	60/40	47% poor	moderate								15		X	30% overall condition "poor".
782				32.1						32.1		coast redwood	*Sequoia sempervirens*	35/20	70/70	70% good	moderate									X		75% overall condition "good".
783				26.0						26.0		coast redwood	*Sequoia sempervirens*	85/20	70/70	70% good	moderate									X		70% overall condition "good.
784				16.1						16.1		coast redwood	*Sequoia sempervirens*	75/15	70/65	70% good	moderate									X		50% overall condition "fair"
785				21.9						21.9		coast redwood	*Sequoia sempervirens*	75/15	70/70	70% good	moderate									X		60% overall condition "fair"
786		X		13.0						13.0		coast redwood	*Sequoia sempervirens*	50/8	50/35	40% poor	poor	W								X		25% overall condition "very poor".
787		X		17.8						17.8		coast redwood	*Sequoia sempervirens*	65/10	60/35	40% poor	poor	W								X		25% overall condition "very poor".
788				20.1						20.1		coast redwood	*Sequoia sempervirens*	90/15	60/60	60% fair	poor to mod									X		50% overall condition "fair"

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789				23.4						23.4		coast redwood	*Sequoia sempervirens*	80/15	75/70	73% good	moderate		E							X		70% overall condition "good.
790				19.5						19.5		coast redwood	*Sequoia sempervirens*	80/18	75/75	75% good	moderate									X		60% overall condition "fair"
791				17.1	15.1					32.2		coast redwood	*Sequoia sempervirens*	70/20	70/60	65% fair								2		X		65% overall condition "fair".
792				28.2						28.2		coast redwood	*Sequoia sempervirens*	90/20	70/70	70% good	moderate									X		70% overall condition "good.
793				21.9						21.9		coast redwood	*Sequoia sempervirens*	70/15	65/60	62% fair	moderate									X		58% overall condition "fair".
794		X		22.0						22.0		coast redwood	*Sequoia sempervirens*	50/15	60/40	47% poor	moderate							0 to 2		X	Apical stem splitout	27% overall condition "very poor".
795				24.0						24.0		coast redwood	*Sequoia sempervirens*	85/20	70/70	70% good	moderate									X		70% overall condition "good.
796				45.5						45.5		coast redwood	*Sequoia sempervirens*	90/30	75/75	75% good	good									X		78% overall condition "good".
797				14.8						14.8		coast redwood	*Sequoia sempervirens*	50/8	50/40	47% poor	moderate									X	Supressed in shade	35% overall condition "poor".
798				12.6						12.6		coast redwood	*Sequoia sempervirens*	60/12	60/40	48% poor	poor		E					20		X		25% overall condition "very poor".
799				22.6						22.6		coast redwood	*Sequoia sempervirens*	80/13	70/70	70% good	moderate									X		65% overall condition "fair".
800				21.8						21.8		coast redwood	*Sequoia sempervirens*	65/13	65/65	65% fair	moderate									X		65% overall condition "fair".
801				17.3						17.3		coast redwood	*Sequoia sempervirens*	55/9	50/50	50% fair	poor	W	W							X		30% overall condition "poor".

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802				32.5						32.5		coast redwood	*Sequoia sempervirens*	90/25	50/50	50% fair	poor									X	Difficult to assess visually.	50% overall condition "fair"
803				15.0						15.0		coast redwood	*Sequoia sempervirens*	60/9	30/30	30% poor	poor									X		30% overall condition "poor".
804		X		32.4						32.4		coast redwood	*Sequoia sempervirens*	90/18	60/60	60% fair	poor to mod									X		20% overall condition "very poor". This tree was illegally pruned in April 2020 or May 2020 by neighbor to west of West Perimeter Road, who apparently cut out a large number of dead limbs extending into their property airspace (see photos in May 15, 2020 inspection report). 2/26/21 that this tree is in 10% overall condition, and is now "bushing out" withnew twig growth from the mainstem.
805				13.0						13.0		coast redwood	*Sequoia sempervirens*	50/5	40/40	40% poor	poor									X	S-trunk form	30% overall condition "poor".
806				16.8						16.8		coast redwood	*Sequoia sempervirens*	50/10	60/55	58% fair	moderate									X		40% overall condition "poor"
807		X		12.1						12.1		coast redwood	*Sequoia sempervirens*	60/12	50/55	53% fair	poor to mod									X		Tree removed. October 2018.
808		X		24.5						24.5		coast redwood	*Sequoia sempervirens*	90/20	40/30	33% poor	poor							55		X		Tree removed. October 2018.
809		X		11.0						11.0		coast redwood	*Sequoia sempervirens*	55/15	60/50	55% fair	poor to mod									X		37% overall condition (poor)
810		X		15.0						15.0		coast redwood	*Sequoia sempervirens*	75/8	10/10	10% very poor	very poor									X		Tree removed in May/June 2021 by Vallco team due to dead condition.
811		X		5.6						5.6		coast redwood	*Sequoia sempervirens*	30/6	40/30	35% poor	poor									X		25% overall condition "very poor".
812		X		23.2						23.2		coast redwood	*Sequoia sempervirens*	80/20	0/0	0% dead	dead									X	S - trunk form.	0% (Dead)
813		X		13.3						13.3		coast redwood	*Sequoia sempervirens*	70/16	10/10	10% very poor	very poor									X		7% overall condition (very poor)

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814		X		24.4						24.4		coast redwood	*Sequoia sempervirens*	85/20	0/0	0% dead	dead									X		Tree removed. October 2018.
815		X		9.0						9.0		coast redwood	*Sequoia sempervirens*	40/5	0/0	0% dead	dead									X		Tree removed. October 2018.
816		X		16.5						16.5		coast redwood	*Sequoia sempervirens*	80/12	50/50	50% fair	poor									X		20% overall condition "very poor".
817		X		11.9						11.9		coast redwood	*Sequoia sempervirens*	35/6	50/40	43% poor	poor									X		15% overall condition "very poor".
818				25.4						25.4		coast redwood	*Sequoia sempervirens*	80/18	60/60	60% fair	moderate									X		60% overall condition "fair"
819				12.4						12.4		coast redwood	*Sequoia sempervirens*	55/13	50/40	45% poor	poor									X		30% overall condition "poor".
820				26.3						26.3		coast redwood	*Sequoia sempervirens*	90/25	55/60	58% fair	poor to mod									X		70% overall condition "good.
821		X		4.6						4.6		coast redwood	*Sequoia sempervirens*	30/3	0/0	0% dead	dead									X		12% overall condition "very poor". TREE REMOVED AS OF OCTOBER 2018.
822				23.4						23.4		coast redwood	*Sequoia sempervirens*	90/20	50/50	50% fair	poor							18		X		55% overall condition "fair"
823				17.9						17.9		coast redwood	*Sequoia sempervirens*	100/15	50/35	40% poor	poor							70		X		40% overall condition "poor"
824				29.3						29.3		coast redwood	*Sequoia sempervirens*	100/20	40/40	40% poor	poor to mod							25		X		75% overall condition "good".
825		X		7.8						7.8		coast redwood	*Sequoia sempervirens*	30/8	40/20	29% very poor	poor									X		18% overall condition "very poor"
826				11.1						11.1		coast redwood	*Sequoia sempervirens*	35/12	60/50	50% fair	poor to mod	E								X	Bow form trunk.	40% overall condition "poor"

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827		X		10.7						10.7		coast redwood	*Sequoia sempervirens*	35/10	0/0	0% dead	dead									X	Bow form trunk.	0% (Dead)
828				11.7						11.7		coast redwood	*Sequoia sempervirens*	50/8	30/30	30% poor	poor							20		X		30% overall condition "poor".
829				27.2						27.2		coast redwood	*Sequoia sempervirens*	95/25	70/70	70% good	moderate									X		70% overall condition "good.
830				15.2						15.2		coast redwood	*Sequoia sempervirens*	40/16	45/30	37% poor	poor to mod							20		X		35% overall condition "poor".
831				11.0						11.0		coast redwood	*Sequoia sempervirens*	40/8	30/40	37% poor	poor		SW							X		30% overall condition "poor".
832				13.0						13.0		coast redwood	*Sequoia sempervirens*	45/11	60/55	59% fair	moderate									X		30% overall condition "poor".
833				26.6						26.6		coast redwood	*Sequoia sempervirens*	70/30	70/65	69% fair	moderate							30		X		78% overall condition "good" .
834		X		5.8						5.8		coast redwood	*Sequoia sempervirens*	30/5	20/20	20% very poor	very poor		SE							X		6% overall condition "very poor".
835				15.8	11.0					26.8		coast redwood	*Sequoia sempervirens*	85/18	60/50	55% fair	poor to mod							2		X		45% overall condition "poor".
836		X		9.8						9.8		coast redwood	*Sequoia sempervirens*	30/12	25/25	25% very poor	very poor		S							X		Tree removed, October 2018.
837				15.2						15.2		coast redwood	*Sequoia sempervirens*	45/10	50/40	45% poor	poor to mod	W	NW							X		30% overall condition "poor".
838				23.9						23.9		coast redwood	*Sequoia sempervirens*	85/20	45/45	45% poor	poor									X		60% overall condition "fair"
839				26.1						26.1		coast redwood	*Sequoia sempervirens*	90/25	60/60	60% fair	moderate									X		70% overall condition "good.

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840		X		10.8	9.0					19.8		coast redwood	*Sequoia sempervirens*	60/8	35/35	35% poor	poor							20		X		20% overall condition "very poor".
841				21.2						21.2		coast redwood	*Sequoia sempervirens*	80/13	60/50	53% fair	poor to mod									X	Sweep form trunk. Apical meristem appears gone.	35% overall condition "poor".
842				27.2	8.5					35.7		coast redwood	*Sequoia sempervirens*	90/15	70/70	70% good	moderate									X		75% overall condition "good".
843		X		10.8						10.8		coast redwood	*Sequoia sempervirens*	55/4	10/10	10% very poor	very poor							15		X		Tree has been removed. October 2018.
844				16.4						16.4		coast redwood	*Sequoia sempervirens*	80/20	60/40	50% fair	poor to mod									X		75% overall condition "good".
845				28.2						28.2		coast redwood	*Sequoia sempervirens*	90/25	70/70	70% good	moderate									X		30% overall condition "poor".
846		X		14.7						14.7		coast redwood	*Sequoia sempervirens*	45/6	50/45	48% poor	poor to mod									X		Neighbors sheared tree in October, 2020. Expect tree to decline over time.
847				11.5	9.5					21.0		coast redwood	*Sequoia sempervirens*	45/10	50/50	50% fair	poor to mod									X		NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME.
848				23.9						23.9		coast redwood	*Sequoia sempervirens*	90/20	50/50	50% fair	poor to mod									X		NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME.
849				20.5						20.5		coast redwood	*Sequoia sempervirens*	80/18	60/50	55% fair	poor to mod									X		NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME.
850				18.3						18.3		coast redwood	*Sequoia sempervirens*	80/15	55/50	54% fair	poor to mod		E							X		NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME.
851				24.5						24.5		coast redwood	*Sequoia sempervirens*	95/25	65/50	60% fair	moderate									X	Sweep form trunk.	NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME.

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852		X		12.5	6.9					19.4		coast redwood	*Sequoia sempervirens*	55/18	60/50	20% Very Poor as of 2/26/21 due to 2020 illegal pruning.	poor to mod							1		X		NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. TREE IS SIGNIFICANTLY DECLINING IN OVERALL CONDITION AS OF 2/26/21 DUE TO THE OCTOBER, 2020 NEIGHBOR PRUNING.
853		X		11.8	7.8					19.6		coast redwood	*Sequoia sempervirens*	35/18	15/15	10% Very Poor as of 2/26/2021 due to illegal pruning in 2020.	very poor							2		X		NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. TREE IS SIGNIFICANTLY DECLINING IN OVERALL CONDITION AS OF 2/26/21 DUE TO THE OCTOBER, 2020 NEIGHBOR PRUNING.
854		X		18.5						18.5		coast redwood	*Sequoia sempervirens*	70/18	40/35	5% (basically dead) as of 2/26/21 due to 2020 illegal pruning.	poor							30		X		NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. TREE IS SIGNIFICANTLY DECLINING IN OVERALL CONDITION AS OF 2/26/21 DUE TO THE OCTOBER, 2020 NEIGHBOR PRUNING.
855		X		15.1						15.1		coast redwood	*Sequoia sempervirens*	70/18	55/50	20% Very Poor, as of 2/26/21, due to illegal pruning.	poor to mod									X		NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. TREE IS SIGNIFICANTLY DECLINING IN OVERALL CONDITION AS OF 2/26/21 DUE TO THE OCTOBER, 2020 NEIGHBOR PRUNING.
856		X		10.1						10.1		coast redwood	*Sequoia sempervirens*	45/9	40/35	Dead (0% rating) as of 2/26/21, due to illegal pruning.	poor									X		NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME. TREE IS SIGNIFICANTLY DECLINING IN OVERALL CONDITION AS OF 2/26/21 DUE TO THE OCTOBER, 2020 NEIGHBOR PRUNING.
857				21.1						21.1		coast redwood	*Sequoia sempervirens*	85/25	55/50	50% fair	poor to mod									X		NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME.
858				19.5						19.5		coast redwood	*Sequoia sempervirens*	85/20	60/50	55% fair	moderate									X		NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME.
859				9.8						9.8		coast redwood	*Sequoia sempervirens*	50/10	40/35	38% poor	poor									X	Supressed in shade	NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME.

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-trunk for specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Main Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
860				22.2						22.2		coast redwood	*Sequoia sempervirens*	85/20	60/60	60% fair	moderate									X		NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME.
861				25.0						25.0		coast redwood	*Sequoia sempervirens*	90/30	60/60	60% fair	moderate									X		NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME.
862				20.6						20.6		coast redwood	*Sequoia sempervirens*	80/25	60/60	60% fair	moderate									X		NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME.
863				31.5						31.5		coast redwood	*Sequoia sempervirens*	90/20	75/75	75% good	good									X		NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME.
864				23.8						23.8		coast redwood	*Sequoia sempervirens*	95/15	70/65	68% fair	moderate									X		NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME.
865				24.0						24.0		coast redwood	*Sequoia sempervirens*	90/15	60/40	47% poor	moderate	W								X	S-trunk form. Abnormal trunk cross section that is cankered.	NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME.
866				31.0	13.3					44.3		coast redwood	*Sequoia sempervirens*	95/28	60/50	55% fair	moderate	W							3		X		NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME.
867		X		6.5						6.5		coast redwood	*Sequoia sempervirens*	30/6	65/45	55% fair	moderate									X	Supressed in shade	NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME.
868				16.3						16.3		coast redwood	*Sequoia sempervirens*	50/18	70/70	70% good	moderate									X		NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME.
869				16.0						16.0		coast redwood	*Sequoia sempervirens*	75/15	70/60	68% fair	moderate									X		NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME.
870				27.6						27.6		coast redwood	*Sequoia sempervirens*	85/20	75/75	75% good	good									X		NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME.
871				25.8						25.8		coast redwood	*Sequoia sempervirens*	95/25	75/75	75% good	good									X		NEIGHBORS SHEARED WEST SIDE IN OCTOBER, 2020. EXPECT TREE DECLINE OVER TIME.
872				23.7	15.6					39.3		coast redwood	*Sequoia sempervirens*	50/20	65/55	60% fair	moderate	E							2				

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-stem, or multi-stem specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Main Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
873		X		13.9						13.9		coast redwood	*Sequoia sempervirens*	65/12	25/25	25% very poor	poor												
874				10.5						10.5		coast redwood	*Sequoia sempervirens*	30/9	35/30	30% poor	poor												
875				14.1						14.1		coast redwood	*Sequoia sempervirens*	45/10	40/40	40% poor	poor												
876	Alt. Lot "West"	(START OF "ALTERNATE LOT WEST" SURVEY)		31.0						31.0		coast redwood	*Sequoia sempervirens*	75/18	70/70	70% good	moderate												
877	Alt. Lot "West"			23.7						23.7		coast redwood	*Sequoia sempervirens*	65/18	65/60	63% fair	poor to mod										X		
878	Alt. Lot "West"			19.2						19.2		coast redwood	*Sequoia sempervirens*	75/15	65/60	63% fair	poor to mod										X		
879	Alt. Lot "West"			22.8						22.8		coast redwood	*Sequoia sempervirens*	75/18	65/65	65% fair	moderate										X		
880	Alt. Lot "West"			20.5						20.5		coast redwood	*Sequoia sempervirens*	75/18	65/55	60% fair	moderate										X		
881	Alt. Lot "West"			20.8	11.9					32.7		coast redwood	*Sequoia sempervirens*	75/18	60/50	58% fair	moderate							3			X		
882	Alt. Lot "West"			33.3						33.3		coast redwood	*Sequoia sempervirens*	65/20	60/60	60% fair	moderate										X		
883	Alt. Lot "West"			11.4						11.4		coast redwood	*Sequoia sempervirens*	30/8	30/35	33% poor	poor										X		
884	Alt. Lot "West"			31.5						31.5		coast redwood	*Sequoia sempervirens*	90/18	60/60	60% fair	poor to mod	W									X		
885	Alt. Lot "West"			32.1						32.1		coast redwood	*Sequoia sempervirens*	95/25	75/75	75% good	moderate										X		

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886	Alt. Lot "West"			9.8						9.8		coast redwood	*Sequoia sempervirens*	45/6	30/30	30% poor	poor									X		
887	Alt. Lot "West"			25.5						25.5		coast redwood	*Sequoia sempervirens*	75/18	65/65	65% fair	poor to mod									X		
888	Alt. Lot "West"			29.0						29.0		coast redwood	*Sequoia sempervirens*	85/25	60/55	59% fair	poor to mod									X		
889	Alt. Lot "West"	?		15.3						15.3		coast redwood	*Sequoia sempervirens*	45/9	25/25	25% very poor	poor									X		
890	Alt. Lot "West"	X		16.9						16.9		coast redwood	*Sequoia sempervirens*	50/12	0/0	0% dead										X		
891	Alt. Lot "West"	X		29.5						29.5		coast redwood	*Sequoia sempervirens*	65/25	0/0	0% dead										X		
892	Alt. Lot "West"	X		8.6						8.6		coast redwood	*Sequoia sempervirens*	30/6	0/0	0% dead										X		
893	Alt. Lot "West"			26.4						26.4		coast redwood	*Sequoia sempervirens*	75/20	70/70	70% good	moderate									X		
894	Alt. Lot "West"			18.3						18.3		coast redwood	*Sequoia sempervirens*	65/12	40/30	35% poor	moderate									X	***Botryspheria* fungal infection noted as canker progression along trunk. Monitor progression over time.**	
895	Alt. Lot "West"			29.4						29.4		Italian stone pine	*Pinus pinea*	45/30	85/75	79% good	good	E	E									
896	Alt. Lot "West"			26.2						26.2		Italian stone pine	*Pinus pinea*	45/25	80/30	50% fair	good	E	E					18				
897	Alt. Lot "West"			9.6						9.6		coast redwood	*Sequoia sempervirens*	25/12	65/60	64% fair	moderate									X		
898	Alt. Lot "West"			17.8						17.8		coast redwood	*Sequoia sempervirens*	45/15	60/60	60% fair	poor to mod									X		

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-trunk, or most specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Main Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
899	Alt. Lot "West"			11.4						11.4		coast redwood	*Sequoia sempervirens*	45/15	60/40	50% fair	moderate									X	Sweep-form trunk.	
900	Alt. Lot "West"			19.7						19.7		coast redwood	*Sequoia sempervirens*	60/16	35/35	35% poor	poor									X		
901	Alt. Lot "West"			4.1						4.1		coast redwood	*Sequoia sempervirens*	30/6	35/35	35% poor	moderate									X		
902	Alt. Lot "West"			9.5						9.5		coast redwood	*Sequoia sempervirens*	35/12	65/45	50% fair	moderate									X	Mainstem splitout.	
903	Alt. Lot "West"			14.7						14.7		coast redwood	*Sequoia sempervirens*	45/15	65/65	65% fair	moderate									X		
904	Alt. Lot "West"			12.9						12.9		coast redwood	*Sequoia sempervirens*	65/15	70/70	70% good	moderate									X		
905	Alt. Lot "West"			14.7						14.7		coast redwood	*Sequoia sempervirens*	55/20	65/70	68% fair	moderate									X		
906	Alt. Lot "West"			19.3						19.3		coast redwood	*Sequoia sempervirens*	70/20	70/70	70% good	moderate									X		
907	Alt. Lot "West"			16.0						16.0		coast redwood	*Sequoia sempervirens*	60/12	60/45	50% fair	poor	E								X		
908	Alt. Lot "West"			6.4						6.4		coast redwood	*Sequoia sempervirens*	25/10	70/40	50% fair	moderate	E								X		
909	Alt. Lot "West"			27.0						27.0		coast redwood	*Sequoia sempervirens*	75/20	50/50	50% fair	poor									X		
910	Alt. Lot "West"			22.9						22.9		coast redwood	*Sequoia sempervirens*	75/18	65/65	65% fair	poor to mod									X		
911	Alt. Lot "West"			20.4						20.4		coast redwood	*Sequoia sempervirens*	75/20	70/70	70% good	moderate									X		

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912	Alt. Lot "West"			25.5						25.5		coast redwood	*Sequoia sempervirens*	75/18	60/50	55% fair	poor to mod									X	S-form trunk.	
913	Alt. Lot "West"			20.2						20.2		coast redwood	*Sequoia sempervirens*	7/18	70/70	70% good	moderate									X		
914	Alt. Lot "West"			23.5						23.5		coast redwood	*Sequoia sempervirens*	70/18	50/60	54% fair	poor									X		
915	Alt. Lot "West"			14.8						14.8		coast redwood	*Sequoia sempervirens*	75/16	55/55	55% fair	poor									X		
916	Alt. Lot "West"			16.2	10.0					26.2		coast redwood	*Sequoia sempervirens*	55/16	75/70	70% good	moderate									X		
917	Alt. Lot "West"			14.5						14.5		coast redwood	*Sequoia sempervirens*	45/10	40/40	40% poor	poor									X		
918	Alt. Lot "West"			28.9						28.9		coast redwood	*Sequoia sempervirens*	80/15	40/40	40% poor	poor									X		
919	Alt. Lot "West"	X		17.2						17.2		coast redwood	*Sequoia sempervirens*	50/4	0/0	0% dead										X		
920	Alt. Lot "West"			24.4						24.4		coast redwood	*Sequoia sempervirens*	80/12	70/70	70% good	moderate	N								X		
921	Alt. Lot "West"			21.5						21.5		Italian stone pine	*Pinus pinea*	45/20	85/45	55% fair	good	E	E									
922	Alt. Lot "West"			17.8						17.8		Italian stone pine	*Pinus pinea*	45/18	70/35	40% poor	good	E	E									
923	Alt. Lot "West"	X		12.2	9.1					21.3		coast redwood	*Sequoia sempervirens*	50/4	0/0	0% dead										X		
924	Alt. Lot "West"			12.1						12.1		coast redwood	*Sequoia sempervirens*	70/10	60/50	55% fair	moderate	N								X		

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925	Alt. Lot "West"			20.8						20.8		coast redwood	*Sequoia sempervirens*	65/14	65/65	65% fair	moderate									X		
926	Alt. Lot "West"			7.5						7.5		coast redwood	*Sequoia sempervirens*	35/6	60/40	50% fair	moderate	S								X		
927	Alt. Lot "West"			11.2						11.2		coast redwood	*Sequoia sempervirens*	45/8	50/40	47% poor	poor to mod	S								X		
928	Alt. Lot "West"			18.7						18.7		coast redwood	*Sequoia sempervirens*	60/10	70/65	68% fair	moderate	S								X		
929	Alt. Lot "West"			25.4						25.4		coast redwood	*Sequoia sempervirens*	75/20	70/70	70% good	moderate									X		
930	Alt. Lot "West"			19.9						19.9		coast redwood	*Sequoia sempervirens*	75/18	70/70	70% good	moderate	E								X		
931	Alt. Lot "West"			15.2						15.2		coast redwood	*Sequoia sempervirens*	65/18	60/60	60% fair	poor to mod	E								X		
932	Alt. Lot "West"	X		14.2						14.2		coast redwood	*Sequoia sempervirens*	55/8	5/5	5% very poor	very poor									X		
933	Alt. Lot "West"	X		8.5						8.5		coast redwood	*Sequoia sempervirens*	30/5	0/0	0% dead										X		
934	Alt. Lot "West"			23.5						23.5		Monterey pine	*Pinus radiata*	55/25	60/45	50% fair	moderate	SW	SW							X		
935	Alt. Lot "West"	X		13.2						13.2		coast redwood	*Sequoia sempervirens*	45/7	5/5	5% very poor	very poor		E							X		
936	Alt. Lot "West"			29.2						29.2		coast redwood	*Sequoia sempervirens*	70/20	70/70	70% good	moderate									X		
937	Alt. Lot "West"	X		6.0						6.0		coast redwood	*Sequoia sempervirens*	30/5	0/0	0% dead										X		

The Rise Project / Tree Data by Walter Levison, Consulting Arborist (WLCA)
Revised 3/23/2022 by WLCA

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938	Alt. Lot "West"	X		15.3						15.3		coast redwood	*Sequoia sempervirens*	60/10	20/20	20% very poor	very poor									X		
939	Alt. Lot "West"			4.3						4.3		Shamel ash	*Fraxinus uhdei*	25/9	85/85	85% good	good									X		
940	Alt. Lot "West"			20.1						20.1		coast redwood	*Sequoia sempervirens*	65/12	40/50	45% poor	poor									X		
941	Alt. Lot "West"			20.0						20.0		coast redwood	*Sequoia sempervirens*	75/15	70/70	70% good	moderate									X		
942	Alt. Lot "West"	X		5.0						5.0		coast redwood	*Sequoia sempervirens*	65/13	0/0	0% dead										X		
943	Alt. Lot "West"			22.6						22.6		coast redwood	*Sequoia sempervirens*	65/15	60/50	55% fair	poor to mod									X		
944	Alt. Lot "West"			17.1						17.1		coast redwood	*Sequoia sempervirens*	60/13	70/70	70% good	moderate									X		
945	Alt. Lot "West"			19.4						19.4		coast redwood	*Sequoia sempervirens*	65/15	70/65	68% fair	moderate									X	Sweep-form trunk.	
946	Alt. Lot "West"			17.0						17.0		coast redwood	*Sequoia sempervirens*	65/12	30/30	30% poor	poor									X		
947	Alt. Lot "West"			7.8						7.8		coast redwood	*Sequoia sempervirens*	30/5	30/30	30% poor	poor									X		
948	Alt. Lot "West"			23.0						23.0		Monterey pine	*Pinus radiata*	15/2	0/0	0% dead (STUMP)										X		
949	Alt. Lot "West"	X		12.2						12.2		coast redwood	*Sequoia sempervirens*	50/5	0/0	0% dead										X		
950	Alt. Lot "West"			16.6						16.6		coast redwood	*Sequoia sempervirens*	60/18	75/75	75% good	moderate									X		

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-stem, or most specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Main Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
951	Alt. Lot "West"			24.5						24.5		Italian stone pine	*Pinus pinea*	15/2	0/0	0% dead										X		
952	Alt. Lot "West"			19.5						19.5		Italian stone pine	*Pinus pinea*	30/20	60/30	40% poor	good	E	E								Severe lean.	
953	Alt. Lot "West"			22.7						22.7		coast redwood	*Sequoia sempervirens*	50/15	50/45	47% poor	poor to mod									X		
954	Alt. Lot "West"	X		8.7						8.7		coast redwood	*Sequoia sempervirens*	25/5	5/5	5% very poor	very poor									X		
955	Alt. Lot "West"	?		17.7						17.7		coast redwood	*Sequoia sempervirens*	40/18	25/25	25% very poor	very poor									X		
956	Alt. Lot "West"			25.9						25.9		coast redwood	*Sequoia sempervirens*	65/20	50/50	50% fair	poor to mod									X		
957	Alt. Lot "West"			14.0	13.8					27.8		coast redwood	*Sequoia sempervirens*	55/13	30/30	30% poor	poor							2		X		
958	Alt. Lot "West"	?		6.4						6.4		coast redwood	*Sequoia sempervirens*	40/4	5/5	5% very poor	very poor									X		
959	Alt. Lot "West"			21.4						21.4		coast redwood	*Sequoia sempervirens*	65/18	45/45	45% poor	poor									X		
960	Alt. Lot "West"			5.5						5.5		Shamel ash	*Fraxinus uhdei*	25/10	85/60	65% fair	good	S	S							X		
961	Alt. Lot "West"			21.5						21.5		coast redwood	*Sequoia sempervirens*	60/18	30/30	30% poor										X		
962	Alt. Lot "West"			14.3						14.3		coast redwood	*Sequoia sempervirens*	35/14	30/30	30% poor										X		
963	Alt. Lot "West"			4.0						4.0		California pepper tree	*Schinus molle*	17/7	75/75	75% good	good											

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1²+2²+3²+4²+5²)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-trunk or specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Main Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
964	Alt. Lot "West"	X		17.9						17.9		coast redwood	*Sequoia sempervirens*	40/6	0/0	0% dead											X		
965	Alt. Lot "West"			16.5						16.5		coast redwood	*Sequoia sempervirens*	55/15	30/30	30% poor											X		
966	Alt. Lot "West"	?		18.8						18.8		coast redwood	*Sequoia sempervirens*	50/5	25/25	25% very poor	poor										X		
967	Alt. Lot "West"			6.8	3.7					10.5		Shamel ash	*Fraxinus uhdei*	35/14	85/70	75% good	good										X		
968	Alt. Lot "West"	?		15.1						15.1		coast redwood	*Sequoia sempervirens*	35/4	0/0	0% dead											X		
969	Alt. Lot "West"			5.6						5.6		Shamel ash	*Fraxinus uhdei*	35/12	75/75	75% good	good										X		
970	Alt. Lot "West"	?		9.2						9.2		coast redwood	*Sequoia sempervirens*	40/8	5/5	5% very poor	very poor										X		
971	Alt. Lot "West"	?		7.7						7.7		coast redwood	*Sequoia sempervirens*	55/18	20/20	20% very poor	very poor										X		
972	Alt. Lot "West"			22.2						22.2		coast redwood	*Sequoia sempervirens*	65/20	65/65	65% fair	moderate										X		
973	Alt. Lot "West"			18.5						18.5		coast redwood	*Sequoia sempervirens*	65/20	40/40	40% poor	poor										X	Apical meristem has been split out.	
974	Alt. Lot "West"			19.4						19.4		coast redwood	*Sequoia sempervirens*	65/20	75/75	75% good	moderate										X		
975	Alt. Lot "West"			23.2						23.2		coast redwood	*Sequoia sempervirens*	65/16	65/65	65% fair	moderate	N									X		
976	Alt. Lot "West"			10.6						10.6		coast redwood	*Sequoia sempervirens*	55/12	70/65	68% fair	moderate										X		

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Revised 3/23/2022 by WLCA

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5+6)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-trunk for specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Main Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
977	Alt. Lot "West"			10.3						10.3		coast redwood	*Sequoia sempervirens*	55/12	65/65	65% fair	moderate									X		
978	Alt. Lot "West"			28.6						28.6		coast redwood	*Sequoia sempervirens*	70/15	70/70	70% good	moderate									X		
979	Alt. Lot "West"			23.8						23.8		coast redwood	*Sequoia sempervirens*	80/18	60/60	60% fair	poor to mod									X		
980	Alt. Lot "West"			20.5						20.5		coast redwood	*Sequoia sempervirens*	70/18	60/60	60% fair	poor to mod									X		
981	Alt. Lot "West"			20.9						20.9		coast redwood	*Sequoia sempervirens*	80/18	75/75	75% good	moderate									X		
982	Alt. Lot "West"			20.0						20.0		coast redwood	*Sequoia sempervirens*	70/15	45/40	43% poor	poor									X		
983	Alt. Lot "West"			16.2						16.2		coast redwood	*Sequoia sempervirens*	80/15	60/60	60% fair	poor to mod									X		
984	Alt. Lot "West"			23.0						23.0		coast redwood	*Sequoia sempervirens*	70/18	65/65	65% fair	moderate		NW							X	Sweep-form trunk.	
985	Alt. Lot "West"			28.8						28.8		coast redwood	*Sequoia sempervirens*	70/18	45/45	45% poor	poor									X		
986	Alt. Lot "West"			22.0	16.7					38.7		coast redwood	*Sequoia sempervirens*	70/18	45/45	45% poor	poor									X		
987	Alt. Lot "West"			19.2						19.2		coast redwood	*Sequoia sempervirens*	55/12	60/50	55% fair	poor to mod									X		
988	Alt. Lot "West"			26.7						26.7		coast redwood	*Sequoia sempervirens*	70/15	45/45	45% poor	poor									X		
989	Alt. Lot "West"			10.2						10.2		coast redwood	*Sequoia sempervirens*	35/12	60/50	55% fair	moderate									X		

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990	Alt. Lot "West"			27.3						27.3		coast redwood	*Sequoia sempervirens*	80/16	60/60	60% fair	poor to mod									X		
991	Alt. Lot "West"			25.0						25.0		coast redwood	*Sequoia sempervirens*	80/17	45/45	45% poor	poor									X		
992	Alt. Lot "West"			29.5						29.5		coast redwood	*Sequoia sempervirens*	80/18	45/50	48% poor	poor to mod									X		
993	Alt. Lot "West"			20.7						20.7		coast redwood	*Sequoia sempervirens*	75/12	30/30	30% poor	poor									X		
994	Alt. Lot "West"			33.3						33.3		coast redwood	*Sequoia sempervirens*	60/18	45/55	50% fair	poor to mod									X		
995	Alt. Lot "West"			16.1						16.1		coast redwood	*Sequoia sempervirens*	60/12	35/35	35% poor	poor									X	S-trunk form.	
996	Alt. Lot "West"			16.8						16.8		coast redwood	*Sequoia sempervirens*	65/16	55/55	55% fair	poor to mod									X		
997	Alt. Lot "West"			17.9						17.9		coast redwood	*Sequoia sempervirens*	65/14	60/60	60% fair	moderate							45		X		
998	Alt. Lot "West"			21.1						21.1		coast redwood	*Sequoia sempervirens*	65/15	65/65	65% fair	moderate									X	S-trunk form.	
999	Alt. Lot "West"			23.3						23.3		coast redwood	*Sequoia sempervirens*	65/18	60/60	60% fair	poor to mod									X		
1000	Alt. Lot "West"			12.0						12.0		coast redwood	*Sequoia sempervirens*	60/16	65/65	65% fair	moderate									X		
1001	Alt. Lot "West"			12.7						12.7		coast redwood	*Sequoia sempervirens*	50/13	55/50	54% fair	poor to mod									X		
1002	Alt. Lot "West"			16.8						16.8		coast redwood	*Sequoia sempervirens*	60/15	45/50	48% poor	poor									X		
1003	Alt. Lot "West"			12.4	12.0	11.5				35.9		coast redwood	*Sequoia sempervirens*	65/15	65/60	65% fair	moderate									X		

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1004	Alt. Lot "West"			20.7						20.7		coast redwood	*Sequoia sempervirens*	70/16	40/40	40% poor	poor							15		X		
1005	Alt. Lot "West"			13.0						13.0		coast redwood	*Sequoia sempervirens*	35/14	50/45	48% poor	moderate									X		
1006	Alt. Lot "West"			26.7						26.7		coast redwood	*Sequoia sempervirens*	75/18	30/30	30% poor	poor									X		
1007	Alt. Lot "West"			16.8						16.8		coast redwood	*Sequoia sempervirens*	65/18	30/30	30% poor	poor									X		
1008	Alt. Lot "West"			18.9						18.9		coast redwood	*Sequoia sempervirens*	70/18	60/60	60% fair	poor to mod									X		
1009	Alt. Lot "West"	?		16.6						16.6		coast redwood	*Sequoia sempervirens*	55/18	10/10	10% very poor	very poor									X	Apical meristem is gone.	
1010	Alt. Lot "West"	?		17.7						17.7		coast redwood	*Sequoia sempervirens*	65/15	15/15	15% very poor	very poor									X		
1011	Alt. Lot "West"	?		13.8						13.8		coast redwood	*Sequoia sempervirens*	65/15	25/25	25% very poor	very poor									X	Chain around trunk is girdling the tree, and must be removed ASAP in order to avoid the tree being	
1012	Alt. Lot "West"			21.7						21.7		coast redwood	*Sequoia sempervirens*	70/18	60/60	60% fair	poor to mod									X		
1013	Alt. Lot "West"			26.4						26.4		coast redwood	*Sequoia sempervirens*	75/18	30/30	30% poor	poor									X		
1014	Alt. Lot "West"	?		15.1						15.1		coast redwood	*Sequoia sempervirens*	70/13	20/20	20% very poor	very poor									X		
1015	Alt. Lot "West"	?		18.4						18.4		coast redwood	*Sequoia sempervirens*	65/14	25/25	25% very poor	very poor									X		
1016	Alt. Lot "West"			16.6						16.6		coast redwood	*Sequoia sempervirens*	70/16	40/35	38% poor	poor									X	Apical meristem deflected off from vertical.	
1017	Alt. Lot "West"	?		13.1						13.1		coast redwood	*Sequoia sempervirens*	55/13	30/20	25% very poor	very poor									X		
1018	Alt. Lot "West"			16.9						16.9		coast redwood	*Sequoia sempervirens*	55/16	30/20	25% very poor	poor									X		
1019	Alt. Lot "West"			26.5						26.5		coast redwood	*Sequoia sempervirens*	75/18	65/75	70% good	moderate									X		
1020	Alt. Lot "West"	?		6.8						6.8		coast redwood	*Sequoia sempervirens*	20/4	30/20	25% very poor	poor									X		

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1021	Alt. Lot "West"			9.7						9.7		coast redwood	*Sequoia sempervirens*	35/12	75/55	65% fair	moderate									X		
1022	Alt. Lot "West"			21.0						21.0		coast redwood	*Sequoia sempervirens*	55/13	35/40	38% poor	poor									X		
1023	Alt. Lot "West"			24.9						24.9		coast redwood	*Sequoia sempervirens*	75/20	55/65	60% fair	poor to mod									X		
1024	Alt. Lot "West"			17.7						17.7		coast redwood	*Sequoia sempervirens*	60/14	60/65	65% fair	moderate									X		
1025	Alt. Lot "West"			8.8						8.8		coast redwood	*Sequoia sempervirens*	35/10	60/45	53% fair	moderate									X		
1026	Alt. Lot "West"			16.5						16.5		coast redwood	*Sequoia sempervirens*	40/10	60/60	60% fair	moderate									X		
1027	Alt. Lot "West"			20.6						20.6		coast redwood	*Sequoia sempervirens*	65/14	70/70	70% good	moderate									X		
1028	Alt. Lot "West"			18.8						18.8		coast redwood	*Sequoia sempervirens*	60/14	55/45	50% fair	poor to mod									X		
1029	Alt. Lot "West"	?		16.4						16.4		coast redwood	*Sequoia sempervirens*	60/10	20/20	20% very poor	very poor									X	Apical stem is dead.	
1030	Alt. Lot "West"	?		17.5						17.5		coast redwood	*Sequoia sempervirens*	65/10	5/5	5% very poor	very poor									X		
1031	Alt. Lot "West"	?		21.0						21.0		coast redwood	*Sequoia sempervirens*	65/10	5/5	5% very poor	very poor									X		
1032	Alt. Lot "West"			29.7						29.7		coast redwood	*Sequoia sempervirens*	70/18	55/40	47% poor	poor to mod							40		X		
1033	Alt. Lot "West"			18.5						18.5		coast redwood	*Sequoia sempervirens*	55/13	65/65	65% fair	moderate									X		
1034	Alt. Lot "West"			24.8						24.8		coast redwood	*Sequoia sempervirens*	70/15	70/70	70% good	moderate									X		
1035	Alt. Lot "West"			17.0						17.0		coast redwood	*Sequoia sempervirens*	75/14	70/35	50% fair	moderate							9		X		
1036	Alt. Lot "West"			30.4						30.4		coast redwood	*Sequoia sempervirens*	85/25	75/75	75% good	good									X		
1037	Alt. Lot "West"			23.3						23.3		coast redwood	*Sequoia sempervirens*	80/15	70/60	66% fair	moderate									X		

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1038	Alt. Lot "West"			22.0						22.0		coast redwood	*Sequoia sempervirens*	70/15	60/50	55% fair	poor to mod									X	Apical stem missing (blown out).	
1039	Alt. Lot "West"			25.9						25.9		coast redwood	*Sequoia sempervirens*	90/20	70/70	70% good	moderate									X		
1040	Alt. Lot "West"			45.4						45.4		coast redwood	*Sequoia sempervirens*	80/20	70/67	70% good	moderate		S							X		
1041	Alt. Lot "West"			29.1						29.1		coast redwood	*Sequoia sempervirens*	80/15	70/70	70% good	moderate									X		
1042	Alt. Lot "West"			17.5						17.5		coast redwood	*Sequoia sempervirens*	80/10	70/60	65% fair	moderate									X		
1043	Alt. Lot "West"			36.5						36.5		coast redwood	*Sequoia sempervirens*	85/18	75/70	73% good	good									X		
1044	Alt. Lot "West"	?		11.5						11.5		coast redwood	*Sequoia sempervirens*	60/7	20/20	20% very poor	very poor									X		
1045	Alt. Lot "West"			33.7						33.7		coast redwood	*Sequoia sempervirens*	90/13	70/60	63% fair	moderate	E								X		
1046	Alt. Lot "West"			27.8						27.8		coast redwood	*Sequoia sempervirens*	90/12	65/50	57% fair	moderate	E							70		X		
1047	Alt. Lot "West"			21.0						21.0		coast redwood	*Sequoia sempervirens*	80/12	70/60	68% fair	moderate	E								X		
1048	Alt. Lot "West"			17.2						17.2		coast redwood	*Sequoia sempervirens*	60/12	70/60	67% fair	moderate	E								X		
1049	Alt. Lot "West"			43.9						43.9		coast redwood	*Sequoia sempervirens*	90/18	70/70	70% good	good	E								X		
1050	Alt. Lot "West"			26.8						26.8		coast redwood	*Sequoia sempervirens*	80/12	70/60	68% fair	good	W								X		
1051	Alt. Lot "West"			27.4						27.4		coast redwood	*Sequoia sempervirens*	90/12	70/60	70% good	good	W								X		
1052	Alt. Lot "West"			23.6						23.6		coast redwood	*Sequoia sempervirens*	80/12	70/60	64% fair	good	W								X		
1053	Alt. Lot "West"			23.2						23.2		coast redwood	*Sequoia sempervirens*	80/12	70/50	64% fair	good	S								X	Located on steep slope. Possible stability issues?	
1054	Alt. Lot "West"			24.6						24.6		coast redwood	*Sequoia sempervirens*	80/10	70/50	65% fair	good	S								X	Located on steep slope. Possible stability issues?	

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1055	Alt. Lot "West"			27.8						27.8		coast redwood	*Sequoia sempervirens*	80/13	70/50	67% fair	good	S								X	Located on steep slope. Possible stability issues?	
1056	Alt. Lot "West"			25.9						25.9		coast redwood	*Sequoia sempervirens*	80/12	55/60	57% fair	poor to mod									X		
1057	Alt. Lot "West"			27.0						27.0		coast redwood	*Sequoia sempervirens*	75/15	70/70	70% good	good									X		
1058	Alt. Lot "West"			28.7						28.7		coast redwood	*Sequoia sempervirens*	75/18	70/70	70% good	good									X	S-trunk at 4-feet elevation.	
1059	Alt. Lot "West"			29.3	22.0					51.3		coast redwood	*Sequoia sempervirens*	80/18	70/60	68% fair	moderate to good							2		X		
1060	Alt. Lot "West"	X		7.6						7.6		white alder	*Alnus rhombifolia*	18/7	30/10	20% very poor	poor				X		lower trunk			X		
1061	Alt. Lot "West"			19.6						19.6		coast redwood	*Sequoia sempervirens*	60/12	70/55	63% fair	good	W								X	S-trunk form between zero and 15 feet.	
1062	Alt. Lot "West"			9.9						9.9		coast redwood	*Sequoia sempervirens*	45/9	70/65	70% good	good	S								X		
1063	Alt. Lot "West"			19.4						19.4		coast redwood	*Sequoia sempervirens*	60/12	70/65	68% fair	moderate to good									X		
1064	Alt. Lot "West"			12.2						12.2		Shamel ash	*Fraxinus uhdei*	35/30	50/50	50% fair	poor to mod	W								X		
1065	Alt. Lot "West"			12.0						12.0		Shamel ash	*Fraxinus uhdei*	35/25	80/60	67% fair	good	SW	SW							X		
1066	Alt. Lot "West"			32.2						32.2		Italian stone pine	*Pinus pinea*	30/40	75/45	58% fair	good	S						4			Requires endweight reduction pruning. Note trunk measured at narrow point below	
1067	Alt. Lot "West"			25.7						25.7		Italian stone pine	*Pinus pinea*	25/35	65/40	52% fair	moderate	S	S					6			Requires endweight reduction pruning. Note trunk measured at narrow point below	
1068	Alt. Lot "West"			24.6						24.6		Italian stone pine	*Pinus pinea*	30/35	75/60	66% fair	good			12							Requires endweight reduction pruning. Note trunk measured at narrow point below	
1069	Alt. Lot "West"			24.2						24.2		Italian stone pine	*Pinus pinea*	30/35	75/60	68% fair	good	N		18							Requires endweight reduction pruning. Note trunk measured at narrow point below	
1070	Alt. Lot "West"	X		15.4						15.4		Monterey pine	*Pinus radiata*	20/20	30/20	25% very poor	poor	S					1			X		
1071	Alt. Lot "West"			9.0						9.0		honey locust	*Gleditsia triacanthos*	25/18	35/40	37% poor	poor									X		

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1072	Alt. Lot "West"			8.3						8.3		honey locust	*Gleditsia triacanthos*	25/15	40/25	33% poor	poor	W								X		
1073	Alt. Lot "West"			8.9						8.9		honey locust	*Gleditsia triacanthos*	25/20	40/40	40% poor	poor									X		
1074	Alt. Lot "West"			8.2						8.2		honey locust	*Gleditsia triacanthos*	25/20	40/40	40% poor	poor									X		
1075	Alt. Lot "West"	X		7.6						7.6		evergreen pear	*Pyrus kawakamii*	16/13	25/25	25% very poor	very poor	W								X	Fireblight infection	
1076	Alt. Lot "West"	X		8.8						8.8		evergreen pear	*Pyrus kawakamii*	20/20	25/25	25% very poor	very poor		S							X	Fireblight infection	
1077	Alt. Lot "West"			12.9						12.9		evergreen pear	*Pyrus kawakamii*	30/30	30/40	35% poor	moderate									X	Fireblight infection	
1078	Alt. Lot "West"			9.2						9.2		honey locust	*Gleditsia triacanthos*	22/25	65/60	63% fair	moderate									X		
1079	Alt. Lot "West"			6.7						6.7		honey locust	*Gleditsia triacanthos*	18/15	65/55	60% fair	moderate									X		
1080	Alt. Lot "West"			8.5						8.5		honey locust	*Gleditsia triacanthos*	25/20	65/60	63% fair	moderate									X		
1081	Alt. Lot "West"			19.8						19.8		Italian stone pine	*Pinus pinea*	30/40	80/70	75% good	good		E								Will need endweight reduction pruning if retained.	
1082	Alt. Lot "West"			32.8						32.8		Italian stone pine	*Pinus pinea*	35/30	80/60	67% fair	good	S						15			Will need endweight reduction pruning if retained. Note: measured at 2 feet elevation.	
1083	Alt. Lot "West"			22.1						22.1		Italian stone pine	*Pinus pinea*	30/30	80/65	69% fair	good	N	N								Will need endweight reduction pruning if retained.	
1084	Alt. Lot "West"			23.9						23.9		Italian stone pine	*Pinus pinea*	25/25	75/45	55% fair	good	S						4			Note: measured at 3 feet elevation.	
1085	Alt. Lot "West"			18.4						18.4		Italian stone pine	*Pinus pinea*	28/30	80/50	65% fair	good	S						4			Note: measured at 3 feet elevation.	
1086	Alt. Lot "West"			17.6						17.6		Italian stone pine	*Pinus pinea*	30/25	80/65	75% good	good										S-trunk form.	
1087	Alt. Lot "West"			4.4						4.4		(dead standing tree)	*(dead standing tree)*	13/4	0/0	0% dead										X		
1088	Alt. Lot "West"			7.0	7.0	6.5				20.5		coast redwood	*Sequoia sempervirens*	25/10	80/80	80% good	good									X		

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1089	Alt. Lot "West"			7.5						7.5		coast redwood	*Sequoia sempervirens*	25/10	80/80	80% good	good									X		
1090	Alt. Lot "West"			4.5						4.5		coast redwood	*Sequoia sempervirens*	18/8	80/80	80% good	good									X		
1091	Alt. Lot "West"			12.5						12.5		coast redwood	*Sequoia sempervirens*	30/10	70/70	70% good	good									X		
1092	Alt. Lot "West"			4.7	4.1					8.8		coast redwood	*Sequoia sempervirens*	20/13	80/80	80% good	good									X		
1093	Alt. Lot "West"			5.7	5.3					11.0		coast redwood	*Sequoia sempervirens*	25/12	80/80	80% good	good									X		
1094	Alt. Lot "West"			13.4						13.4		coast redwood	*Sequoia sempervirens*	30/11	70/60	66% fair	moderate									X		
1095	Alt. Lot "West"	X		42.0						42.0		Italian stone pine	*Pinus pinea*	25/30	80/0	20% very poor	good										Trunk diameter estimated. Tree has failed structurally, and is lying on the ground.	
1096	Alt. Lot "West"			31.8						31.8		Italian stone pine	*Pinus pinea*	25/25	80/55	64% fair	good	N	N								Trunk measured at 2 feet elevation.	
1097	Alt. Lot "West"	X		13.2						13.2		tulip tree	*Liriodendron tulipifera*	30/12	25/25	25% very poor	very poor									X		
1098	Alt. Lot "West"	?		12.6						12.6		tulip tree	*Liriodendron tulipifera*	25/10	40/30	30% poor	poor									X		
1099	Alt. Lot "West"			27.9						27.9		Italian stone pine	*Pinus pinea*	35/45	85/55	70% good	good	SW	SW	20							Needs endweight reduction pruning.	
1100	Alt. Lot "West"			26.0						26.0		Italian stone pine	*Pinus pinea*	20/35	0/0	0% dead											Trunk diameter estimated. Tree has failed structurally, and is lying on the ground as dead	
1101	Alt. Lot "West"	?		18.9						18.9		Italian stone pine	*Pinus pinea*	40/30	80/50	50% fair	good	NW	NW								Note: Italian stone pines appear to be failing in small diameter planter areas, due to their root development having been severely restricted in terms of lateral	
1102	Alt. Lot "West"	?		38.3						38.3		Italian stone pine	*Pinus pinea*	40/28	80/47	50% fair	good	SW	SW								Same as 'notes' for tree #1101. Trunk diameter measured at 1 foot elevation.	
1103	Alt. Lot "West"	X		24.7						24.7		Italian stone pine	*Pinus pinea*	30/25	60/0	10% very poor	good	S	S								Same as 'notes' for tree #1101. Trunk diameter measured at 2 feet elevation.	
1104	Alt. Lot "West"	X		28.0						28.0		Italian stone pine	*Pinus pinea*	20/20	0/0	0% dead											Same as 'notes' for tree #1101. Trunk diameter measured at 2 feet elevation.	

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1105	Alt. Lot "West"			5.0	4.5					9.5		river red gum	*Eucalytpus camaldulensis*	30/10	90/45	60% fair	good							1		X	Recommend remove one of two codominant mainstems at the fork at 1 foot elevation.	
1106	X			8.0						8.0		southern magnolia	*Magnolia grandiflora*	20/16	50/50	50% fair	poor to mod									X	Roots damaged on grade from mowing activities.	
1107	X			6.8						6.8		southern magnolia	*Magnolia grandiflora*	20/16	50/50	50% fair	poor to mod									X	Roots damaged on grade from mowing activities.	
1108	X			9.0						9.0		southern magnolia	*Magnolia grandiflora*	23/20	55/55	55% fair	poor to mod									X	Roots damaged on grade from mowing activities.	
1109	X			41.8						41.8		Shamel ash	*Fraxinus uhdei*	65/60	80/60	73% good	good		E							X	Roots damaged from recent curb replacement activities.	
1110	X			10.5						10.5		Shamel ash	*Fraxinus uhdei*	35/20	30/30	30% poor	poor	W			X	gr		6		X	Roots damaged from recent curb replacement activities.	
1111	X			14.7						14.7		Shamel ash	*Fraxinus uhdei*	40/20	30/30	30% poor	poor	E			X	gr		10		X	Roots damaged from recent curb replacement activities.	
1112	X			26.6						26.6		Shamel ash	*Fraxinus uhdei*	65/35	60/60	60% fair	moderate	SW				gr				X	Roots damaged from recent curb replacement activities.	
1113	X			33.5						33.5		Shamel ash	*Fraxinus uhdei*	70/70	65/55	60% fair	moderate			35		gr				X	High risk situation: Split "hanger" limb noted at 35 feet elevation on north side of canopy needs to be	
1114				19.2						19.2		Shamel ash	*Fraxinus uhdei*	35/35	85/65	75% good	good	S	S		X					X		
1115		(monitor the girdling root situation)		22.9						22.9		Shamel ash	*Fraxinus uhdei*	35/35	80/30	45% poor	good	E	E			serious girdling root				X	Roots damaged on grade. Note severe girdling root situation.	
1116				24.2						24.2		Shamel ash	*Fraxinus uhdei*	40/40	80/55	65% fair	good				X	gr				X	Roots damaged on grade from mowing activities.	
1117				24.7						24.7		Shamel ash	*Fraxinus uhdei*	45/40	40/30	35% poor	poor		E				througho ut canopy			X	Roots damaged on grade from mowing activities.	
1118				23.0						23.0		Shamel ash	*Fraxinus uhdei*	55/40	60/50	55% fair	moderate	W	W		X					X	Roots damaged on grade from mowing activities.	
1119		X		18.6						18.6		Shamel ash	*Fraxinus uhdei*	45/20	15/15	15% very poor	very poor				X	gr				X	Roots damaged on grade from mowing activities. Recommend remove tree due to very poor overall	
1120				26.7						26.7		Shamel ash	*Fraxinus uhdei*	50/40	75/65	70% good	good	N	E		X					X	Roots damaged on grade from mowing activities.	
1121				19.7						19.7		Shamel ash	*Fraxinus uhdei*	50/35	80/65	76% good	good	W	W		X					X	Roots damaged on grade from mowing activities.	

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1122				21.4						21.4		Shamel ash	*Fraxinus uhdei*	60/35	40/40	40% poor	poor	W			X		0 to 2			X	Roots damaged on grade from mowing activities. Vehicle collision caused damage to trunk between zero	
1123				18.5						18.5		Shamel ash	*Fraxinus uhdei*	55/30	65/55	58% fair	moderate	W			X	gr				X	Roots damaged on grade from mowing activities. Root plate upper surfaces are exposed.	
1124				15.5						15.5		Shamel ash	*Fraxinus uhdei*	30/18	40/30	35% poor	poor	W			X	gr				X	Roots damaged on grade from mowing activities. Root plate upper surfaces are exposed.	
1125				13.8						13.8		Shamel ash	*Fraxinus uhdei*	40/20	50/30	40% poor	moderate	W	S		X	serious girdling root				X	Roots damaged on grade from mowing. Note severe girdling root situation.	
1126																													TREE REMOVED FROM LANDSCAPE.
1127	X			2.7						2.7		red maple	*Acer rubrum*	16/9	80/85	80% Good	Good												Chlorotic foliage. Soil moisture deficit.
1128	X			1.9						1.9		red maple	*Acer rubrum*	13/6	60/60	60% Fair	Mod												Chlorotic foliage. Soil moisture deficit.
1129	X			2.0						2.0		red maple	*Acer rubrum*	13/6	55/55	55% Fair	Mod												Chlorotic foliage. Soil moisture deficit.
1130	X			1.8						1.8		red maple	*Acer rubrum*	10/5	35/35	35% Poor	Poor												Chlorotic foliage. Soil moisture deficit.
1131	X			1.9						1.9		red maple	*Acer rubrum*	11/5	35/35	35% Poor	Poor												Chlorotic foliage. Soil moisture deficit.
1132	X			1.4						1.4		red maple	*Acer rubrum*	9/5	35/35	35% Poor	Poor												Chlorotic foliage. Soil moisture deficit.
1133	X			1.9						1.9		red maple	*Acer rubrum*	13/6	37/45	39% Poor	Poor												Chlorotic foliage. Soil moisture deficit.
1134	X			4.2						4.2		Purple Robe locust	*Robinia* 'Purple Robe'	20/12	85/65	70% Good	North						9 feet.						Removed as of Jan, 2020.
1135	X			4.5						4.5		Purple Robe locust	*Robinia* 'Purple Robe'	20/12	85/65	70% Good	North						0 to 2 feet.						Removed as of Jan, 2020.

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1136	X			3.2						3.2		Purple Robe locust	*Robinia* 'Purple Robe'	25/12	70/70	70% Good	Mod											Removed as of Jan, 2020.
1137	X			4.7						4.7		Purple Robe locust	*Robinia* 'Purple Robe'	20/13	70/50	60% Fair	Mod							1 to 4 feet.				Removed as of Jan, 2020.
1138	X			3.6						3.6		Purple Robe locust	*Robinia* 'Purple Robe'	20/12	70/70	70% Good	Mod											Removed as of Jan, 2020.
1139	X			3.7						3.7		Purple Robe locust	*Robinia* 'Purple Robe'	20/13	70/70	70% Good	Mod	West										Removed as of Jan, 2020.
1140	X			4.3						4.3		flowering pear	*Pyrus calleryana*	15/10	40/60	45% Poor	Mod											Removed as of Jan, 2020.
1141	X			4.4						4.4		Purple Robe locust	*Robinia* 'Purple Robe'	20/15	55/55	55% Fair	Poor to Mod		North					0 to 5 feet.				Removed as of Jan, 2020.
1142	X			3.7						3.7		Purple Robe locust	*Robinia* 'Purple Robe'	24/14	85/70	78% Good	Mod											Removed as of Jan, 2020.
1143	X			5.4						5.4		Purple Robe locust	*Robinia* 'Purple Robe'	28/18	85/55	65% Fair	Mod to Good							0 to 6 feet				Removed as of Jan, 2020.
1144	X			3.8						3.8		Purple Robe locust	*Robinia* 'Purple Robe'	20/12	70/60	68% Fair	Mod											Removed as of Jan, 2020.
1145	X			3.4						3.4		Purple Robe locust	*Robinia* 'Purple Robe'	20/12	70/55	61% Fair	Mod							0 to 8 feet				Removed as of Jan, 2020.
1146	X			3.4						3.4		Purple Robe locust	*Robinia* 'Purple Robe'	18/13	78/57	64% Fair	Mod							0 to 5 feet				Removed as of Jan, 2020.
1147	X			4.1						4.1		Purple Robe locust	*Robinia* 'Purple Robe'	25/14	85/75	80% Good	Mod to Good											Removed as of Jan, 2020.
1148	X			4.2						4.2		Purple Robe locust	*Robinia* 'Purple Robe'	24/14	65/40	46% Poor	Mod							0 to 10 feet				Removed as of Jan, 2020.

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 22" multi-trunk, or specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Main Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
1149	X			4.7						4.7		Purple Robe locust	*Robinia* 'Purple Robe'	24/13	70/57	63% Fair	Mod						0 to 6 feet					Removed as of Jan, 2020.
1150	X			5.6						5.6		Purple Robe locust	*Robinia* 'Purple Robe'	29/18	70/59	66% Fair	Good						0 to 7 feet					Removed as of Jan, 2020.
1151	X			5.0						5.0		Purple Robe locust	*Robinia* 'Purple Robe'	27/18	85/60	72% Good	Mod to Good											Removed as of Jan, 2020.
1152	X			3.6						3.6		Purple Robe locust	*Robinia* 'Purple Robe'	22/10	55/45	48% Poor	Poor to Mod	West	West				0 to 4 feet					Removed as of Jan, 2020.
1153	X			3.8						3.8		Purple Robe locust	*Robinia* 'Purple Robe'	20/11	60/35	48% Poor	Poor to Mod	West	West				0 to 3 feet	At 11 feet.				Removed as of Jan, 2020.
1154	X			2.7						2.7		flowering pear	*Pyrus calleryana*	12/7	50/50	50% Fair	Mod		West									Removed as of Jan, 2020.
1155	X			3.0						3.0		flowering pear	*Pyrus calleryana*	10/7	50/50	50% Fair	Mod	West										Removed as of Jan, 2020.
1156	X			3.6						3.6		Purple Robe locust	*Robinia* 'Purple Robe'	19/10	65/55	59% Fair	Poor to Mod						Various elev. areas.					Removed as of Jan, 2020.
1157	X			2.9						2.9		Purple Robe locust	*Robinia* 'Purple Robe'	15/10	75/60	66% Fair	Mod		West									Removed as of Jan, 2020.
1158	X			4.1						4.1		Purple Robe locust	*Robinia* 'Purple Robe'	18/12	80/60	68% Fair				At six feet and ten feet.								Removed as of Jan, 2020.
1159	X			5.1						5.1		Purple Robe locust	*Robinia* 'Purple Robe'	20/18	85/70	80% Good	Good											Removed as of Jan, 2020.
1160	X			3.6						3.6		flowering pear	*Pyrus calleryana*	14/8	25/25	25% Very Poor												Removed as of Jan, 2020.
1161	X			4.1						4.1		flowering pear	*Pyrus calleryana*	12/9	50/50	50% Fair	Mod											Removed as of Jan, 2020.

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1+2+3+4+5)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi, various specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Mainstems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
1162	X			4.1						4.1		flowering pear	*Pyrus calleryana*	13/9	40/40	40% Poor	Poor											Removed as of Jan, 2020.
1163	X			3.8						3.8		flowering pear	*Pyrus calleryana*	13/8	80/80	80% Good	Good											Removed as of Jan, 2020.
1164	X			5.1						5.1		Purple robe locust	*Robinia* 'Purple Robe'	30/22	75/55	63% Fair	Mod						0 to 6 feet.					Removed as of Jan, 2020.
1165	X			5.4						5.4		Purple robe locust	*Robinia* 'Purple Robe'	30/20	80/68	75% Good	Good						1 to 5 feet.					Removed as of Jan, 2020.
1166	X			5.3						5.3		Purple robe locust	*Robinia* 'Purple Robe'	30/20	80/60	64% Fair	Good						0 to 7 feet.					Removed as of Jan, 2020.
1167	X			2.8						2.8		flowering pear	*Pyrus calleryana*	9/6	40/40	40% Poor	Poor											Removed as of Jan, 2020.
1168	X			5.1						5.1		flowering pear	*Pyrus calleryana*	15/12	60/60	60% Fair	Good											Removed as of Jan, 2020.
1169	X			4.7						4.7		Purple robe locust	*Robinia* 'Purple Robe'	25/18	85/65	74% Good	Good											Removed as of Jan, 2020.
1170	X			4.7						4.7		Purple robe locust	*Robinia* 'Purple Robe'	23/15	80/65	70% Good	Mod											Removed as of Jan, 2020.
1171	X			5.2						5.2		Purple robe locust	*Robinia* 'Purple Robe'	27/16	85/60	70% Good	Good							At 15 feet.				Removed as of Jan, 2020.
1172	X			5.0						5.0		Purple robe locust	*Robinia* 'Purple Robe'	22/16	75/60	69% Fair	Good	North west	North west				5 to 6 feet.					Removed as of Jan, 2020.
1173	X			3.2						3.2		flowering pear	*Pyrus calleryana*	9/6	60/60	60% Fair	Good											Removed as of Jan, 2020.
1174	X			2.6						2.6		flowering pear	*Pyrus calleryana*	9/5	30/30	30% Poor	Poor											Removed as of Jan, 2020.

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1175	X			6.3						6.3		flowering pear	*Pyrus calleryana*	23/18	80/75	75% Good	Good											Removed as of Jan, 2020.
1176	X			4.3						4.3		flowering pear	*Pyrus calleryana*	17/12	65/65	65% Fair	Good											Removed as of Jan, 2020.
1177	X			6.3						6.3		Purple Robe locust	*Robinia* 'Purple Robe'	35/23	50/30	30% Poor	Good						0 to 15 feet					Removed as of Jan, 2020.
1178	X			5.1						5.1		Purple Robe locust	*Robinia* 'Purple Robe'	33/23	50/30	30% Poor	Mod						0 to 8 feet					Removed as of Jan, 2020.
1179	X			3.0						3.0		flowering pear	*Pyrus calleryana*	12/7	40/40	40% Poor	Poor to Mod											Removed as of Jan, 2020.
1180	X			4.7						4.7		Purple Robe locust	*Robinia* 'Purple Robe'	24/15	80/60	70% Good	Mod	North west										Removed as of Jan, 2020.
1181	X			4.0						4.0		Purple Robe locust	*Robinia* 'Purple Robe'	20/14	70/70	70% Good	Mod											Removed as of Jan, 2020.
1182	X			5.1						5.1		Purple Robe locust	*Robinia* 'Purple Robe'	23/16	85/60	70% Good	Good							At 5 feet.				Removed as of Jan, 2020.
1183	X			4.8						4.8		Purple Robe locust	*Robinia* 'Purple Robe'	22/13	80/60	67% Fair	Good						3 to 5 feet					Removed as of Jan, 2020.
1184	X			3.8						3.8		flowering pear	*Pyrus calleryana*	14/9	50/50	50% Fair	Mod											Removed as of Jan, 2020.
1185	X			2.3						2.3		flowering pear	*Pyrus calleryana*	9/6	55/55	55% Fair	Mod											Removed as of Jan, 2020.
1186	X			2.7						2.7		flowering pear	*Pyrus calleryana*	9/7	55/55	55% Fair	Mod											Removed as of Jan, 2020.
1187	X			3.3						3.3		flowering pear	*Pyrus calleryana*	9/8	35/35	35% Poor	Mod						0 to 4 feet					Removed as of Jan, 2020.

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1188	X			5.5						5.5		Purple Robe locust	*Robinia* 'Purple Robe'	28/18	75/30	35% Poor	Good						0 to 5 feet					Removed as of Jan, 2020.
1189	X			5.8						5.8		Purple Robe locust	*Robinia* 'Purple Robe'	35/22	65/25	30% Poor	Good						0 to 8 feet					Removed as of Jan, 2020.
1190	X			4.4						4.4		Purple Robe locust	*Robinia* 'Purple Robe'	30/18	50/30	37% Poor	Mod to Good						At various elev.					Removed as of Jan, 2020.
1191	X			6.8						6.8		Purple Robe locust	*Robinia* 'Purple Robe'	35/23	65/20	25% Very Poor	Good						0 to 10 feet					Removed as of Jan, 2020.
1192	X			3.3						3.3		flowering pear	*Pyrus calleryana*	11/8	30/30	30% Poor	Poor											Removed as of Jan, 2020.
1193	X			2.4						2.4		flowering pear	*Pyrus calleryana*	10/7	55/55	55% Fair	Poor to Mod											Removed as of Jan, 2020.
1194	X			5.3						5.3		Purple Robe locust	*Robinia* 'Purple Robe'	30/48	50/40	45% Poor	Poor to Mod						0 to 9 feet.					Removed as of Jan, 2020.
1195	X			4.5						4.5		Purple Robe locust	*Robinia* 'Purple Robe'	25/15	60/50	50% Fair	Mod						3 to 4 feet.					Removed as of Jan, 2020.
1196	X			5.3						5.3		Purple Robe locust	*Robinia* 'Purple Robe'	25/18	60/35	40% Poor	Mod						0 to 10 feet.					Removed as of Jan, 2020.
1197	X			5.0						5.0		Purple Robe locust	*Robinia* 'Purple Robe'	23/18	55/30	37% Poor	Mod						0 to 6 feet.					Removed as of Jan, 2020.
1198	X			4.9						4.9		Purple Robe locust	*Robinia* 'Purple Robe'	22/18	60/35	45% Poor	Mod						0 to 5 feet.					Removed as of Jan, 2020.
1199	X			3.6						3.6		Purple Robe locust	*Robinia* 'Purple Robe'	20/16	60/60	60% Fair	Poor to Mod											Removed as of Jan, 2020.
1200	X			4.3						4.3		Purple Robe locust	*Robinia* 'Purple Robe'	27/18	60/35	40% Poor	Mod						0 to 6 feet.					Removed as of Jan, 2020.

The Rise Project / Tree Data by Walter Levison, Consulting Arborist (WLCA)
Revised 3/23/2022 by WLCA

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1201	X			3.8						3.8		Purple Robe locust	*Robinia* 'Purple Robe'	22/18	60/60	60% Fair	Poor to Mod												Removed as of Jan, 2020.
1202	X			4.3						4.3		Purple Robe locust	*Robinia* 'Purple Robe'	25/18	70/60	66% Fair	Mod												Removed as of Jan, 2020.
1203	X			5.0						5.0		Purple Robe locust	*Robinia* 'Purple Robe'	26/22	75/35	45% Poor	Good							0 to 5 feet.					Removed as of Jan, 2020.
1204	X			4.6						4.6		Purple Robe locust	*Robinia* 'Purple Robe'	22/16	55/40	40% Poor	Poor to Mod							0 to 5 feet.					Removed as of Jan, 2020.
1205	X			4.0						4.0		Purple Robe locust	*Robinia* 'Purple Robe'	24/20	55/30	36% Poor	Poor							0 to 5 feet.					Removed as of Jan, 2020.
1206	X			5.2						5.2		Purple Robe locust	*Robinia* 'Purple Robe'	33/23	85/60	68% Fair	Good							0 to 9 feet.					Removed as of Jan, 2020.
1207	X			4.3						4.3		Purple Robe locust	*Robinia* 'Purple Robe'	25/20	85/68	75% Good	Good												Removed as of Jan, 2020.
1208	X			3.5						3.5		Purple Robe locust	*Robinia* 'Purple Robe'	25/16	85/70	77% Good	Good												Removed as of Jan, 2020.
1209	X			4.5						4.5		flowering pear	*Pyrus calleryana*	15/10	45/45	45% Poor	Mod												Removed as of Jan, 2020.
1210	X			3.0						3.0		flowering pear	*Pyrus calleryana*	10/6	35/35	35% Poor	Poor												Removed as of Jan, 2020.
1211	X			2.9						2.9		flowering pear	*Pyrus calleryana*	12/8	40/40	40% Poor	Poor												Removed as of Jan, 2020.
1212	X			4.2						4.2		Purple Robe locust	*Robinia* 'Purple Robe'	20/13	65/45	49% Poor	Mod to Good							0 to 3 feet.					Removed as of Jan, 2020.
1213	X			4.2						4.2		Purple Robe locust	*Robinia* 'Purple Robe'	20/15	50/30	37% Poor	Mod							0 to 4 feet.					Removed as of Jan, 2020.

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1214	X			4.2						4.2		Purple Robe locust	*Robinia* 'Purple Robe'	20/17	70/50	64% Fair	Mod to Good						3 to 4 feet.					Removed as of Jan, 2020.
1215	X			4.3						4.3		flowering pear	*Pyrus calleryana*	20/12	30/30	30% Poor	Poor											Removed as of Jan, 2020.
1216	X			3.2						3.2		flowering pear	*Pyrus calleryana*	15/7	70/65	68% Fair	Mod											Removed as of Jan, 2020.
1217	X			3.2						3.2		flowering pear	*Pyrus calleryana*	17/7	60/55	56% Fair	Poor to Mod											Removed as of Jan, 2020.
1218	X			2.9						2.9		flowering pear	*Pyrus calleryana*	17/7	70/65	68% Fair	Mod											Removed as of Jan, 2020.
1219	X			3.1						3.1		flowering pear	*Pyrus calleryana*	16/8	50/50	50% Fair	Poor to Mod											Removed as of Jan, 2020.
1220	X			3.0						3.0		flowering pear	*Pyrus calleryana*	17/8	50/50	50% Fair	Poor to Mod											Removed as of Jan, 2020.
1221																												(This plot point is a shoot arising from the subgrade lignotuber of tree tag #590, and is not an actual "tree")
1222	X			2.9						2.9		flowering pear	*Pyrus calleryana*	21/8	30/30	30% Poor	Poor											Fireblight infection.
1223	X			7.0						7.0		southern magnolia	*Magnolia grandiflora*	16/16	40/30	35% Poor	Poor										X	At parking lot near Hyatt construction project. Tree tagged by WLCA with racetrack shaped tag "1223".
~~1224~~																												TREE REMOVED FROM FIELD.
~~1225~~																												TREE REMOVED FROM FIELD.
1226																												(Tree already in this database as double-stem tree tag #504.).

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1227				1.7						1.7		Chinese elm cultivar	*Ulmus parvifolia* Cult.	14/8	90/80	85% Good	Good												
1228				1.7						1.7		Chinese elm cultivar	*Ulmus parvifolia* Cult.	15/8	90/80	85% Good	Good												
1229				1.8						1.8		Chinese elm cultivar	*Ulmus parvifolia* Cult.	15/8	90/80	85% Good	Good												
1230				4.4						4.4		Chinese elm cultivar	*Ulmus parvifolia* Cult.	18/18	90/80	84% Good	Good												
1231				Est. 22						Est. 22		coast redwood	*Sequoia sempervirens*	85/18	50/50	50% Fair	Poor to Mod												
1232				Est. 24						Est. 24		coast redwood	*Sequoia sempervirens*	50/40	35/35	35% Poor	Poor												
1233				Est. 19						Est. 19		coast redwood	*Sequoia sempervirens*	75/15	40/40	40% Poor	Poor												
1234	X			Est. 15						Est. 15		coast redwood	*Sequoia sempervirens*	45/13	65/65	65% Fair	Mod												No access to trunk base. Tree was not tagged by WLCA. This tree was "rough plotted" by WLCA, and added to the Sandis tree map sheets.
1235				Est. 22						Est. 22		coast redwood	*Sequoia sempervirens*	75/13	55/55	55% Fair	Poor to Mod												Dense growth around base.
1236				Est. 26						Est. 26		coast redwood	*Sequoia sempervirens*	60/16	50/45	48% Poor	Poor to Mod												Two wide-forked codominant mainstems arise at 16 feet above grade. Dense growth around base.
1237				Est. 20						Est. 20		coast redwood	*Sequoia sempervirens*	65/16	40/40	40% Poor	Poor												Dense growth around base.
1238				Est. 22						Est. 22		coast redwood	*Sequoia sempervirens*	68/16	50/50	50% Fair	Poor to Mod												Dense growth around base.
1239				Est. 15						Est. 15		coast redwood	*Sequoia sempervirens*	55/10	50/37	44% Poor	Poor		East										Dense growth around base.

The Rise Project / Tree Data by Walter Levison, Consulting Arborist (WLCA)
Revised 3/23/2022 by WLCA

Tree Tag #	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Failure	Project Team Desires to Transplant	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (in.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 54" A.G. (1²+2²+3²+4²+5²)	"Protected Tree" per City of Cupertino Ordinance (10.0" single stem, 20" multi-trunk for most specified native and non-native species)	Common Name	Scientific Name (*Genus, species*)	Height and Canopy Spread (ft.)	Health & Structural Ratings (0-100% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitout Evidence (Note Elevation)	Topped or Severely Pruned in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Main Stems with Severe Bark Inclusion(s) (Note Height)	Root Extension Restricted in Planter	Soil Moisture Deficit ("Drought Stress")	WLCA Notes from Spring 2015 Survey	Updated Overall Condition Ratings & NOTES 2017 ONWARD
1240				Est. 32						Est. 32		coast redwood	*Sequoia sempervirens*	70/25	60/60	60% Fair	Poor to Mod												Dense growth around base.
1241				Est. 22						Est. 22		coast redwood	*Sequoia sempervirens*	50/15	45/45	45% Poor	Poor												Dense growth around base.
1242				Est. 12						Est. 12		coast redwood	*Sequoia sempervirens*	50/12	60/50	55% Fair	Poor to Mod												Dense growth around base.
1243				Est. 24						Est. 24		coast redwood	*Sequoia sempervirens*	60/15	40/40	40% Poor	Poor												Dense growth around base.
1244	X			15.5						15.5		coast redwood	*Sequoia sempervirens*	35/12	0/0	0% DEAD	n/a												
1245	X			6.0						6.0		Yew pine	*Podocarpus macrophylla*	10/6	40/40	40% Poor	Poor to Mod												Tree removed at the flyway bridge southwest corner on 1/24/2020.

NOTES:

1. Heights were determined using a Nikon Forestry Pro 550 hypsometer. Diameters were determined using a forestry D-tape which converts actual circumference to averaged diameter in inches and tenths of inches.
2. In the original 2015 assignment, Walter Levison tagged and surveyed only trees 4.0 inches diameter and greater (at 4.5 feet above grade), using round-shaped tags #1 through #999. For tree tag numbers above #999, racetrack shaped tags were used, up to tag #1125.
3. Trees #876 through #1105 were located in a triangular survey area known as "alternate lot west".
4. In a followup assignment in July, 2018, Walter Levison was directed by Vallco Property Owner LLC to tag and assess additional trees starting with tag #1126, many of which measured less than 4.0 inches diameter. Most or all of these supplemental trees were excluded from the original tree study, due to trunk diameter being below the study threshold of 4.0 inches, and/or location of trunk outside the original proposed Vallco project area.
5. Parking lot trees were installed in plastic root barriers which severely stunted trees by limiting their root extension. Circular root barriers are considered by arborists to be a direct cause of lack of normal tree growth performance and tree stability.
6. Perimeter trees have not been receiving normal irrigation, and are declining and dying prematurely due to soil moisture deficit.

LEGEND

- PROPERTY LINE
- PROPERTY LINE AFTER DEDICATION
- GARAGE EXTENTS
- STRUCTURE
- STRUCTURE ABOVE

TAG#	EXISTING STANDARD TREE TO REMAIN	334
TAG#	EXISTING STANDARD TREE TO BE REMOVED	374
TAG#	EXISTING TREE TO BE TRANSPLANTED	11
TAG#	DEVELOPMENT TREE TO BE REMOVED	90
TAG#	EXISTING STREET TREE TO REMAIN	101
TAG#	EXISTING STREET TREE TO BE REMOVED	85
TOTAL TREE		995

FOR DETAILS OF EXISTING TREE CONDITIONS, SEE ARBORIST REPORT, DATED JUNE 14, 2019, PREPARED BY WALTER LEVISON, CONSULTING ARBORIST (WLCA).

THE RISE

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LICENSED LANDSCAPE ARCHITECT
Tiffany Beamer No. 5972
9/30/2023
3/23/2022
STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

STAMP / SIGNATURE

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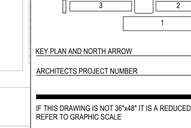
SB-35 MODIFICATION APPLICATION

REV	DESCRIPTION	DATE
REV-0	SB-35 DEVELOPMENT APPLICATION	03/27/2018
REV-1	SB-35 APPLICATION - REVISIONS	07/31/2018
REV-2	SB-35 APPLICATION - REVISIONS	08/06/2018
REV-3	SB-35 APPLICATION CONFORM SET	09/15/2018
REV-4	SB-35 MODIFICATION APPLICATION	03/23/2022



KEY PLAN AND NORTH ARROW

ARCHITECTS PROJECT NUMBER 708.012

IF THIS DRAWING IS NOT 36"x48" IT IS A REDUCED PRINT; REFER TO GRAPHIC SCALE

0 32' 64' 128' 192'

SCALE: 1/64"=1'-0"

TREE DISPOSITION PLAN

SHEET TITLE:

P-0602B

SHEET NUMBER:

Fact Sheet ST-589
October 1994

Sequoia sempervirens Coast Redwood[1]

Edward F. Gilman and Dennis G. Watson[2]

INTRODUCTION

Sequoia sempervirens, the Coast Redwoods of California, are the tallest trees in the world (Fig. 1). They can vary greatly when grown from seed, but varieties are available now which have been vegetatively propagated and they retain true characteristics. Redwoods grow three to five feet per year and are remarkably pest-free. They live to be many hundreds of years old; some live to several thousand years. Bark is particularly beautiful, turning a bright orange on older trees. It may grow poorly in zones 9 and 10 in Florida.

GENERAL INFORMATION

Scientific name: *Sequoia sempervirens*
Pronunciation: see-KWOY-uh sem-per-VYE-renz
Common name(s): Coast Redwood
Family: *Taxodiaceae*
USDA hardiness zones: 7 through 10A (Fig. 2)
Origin: native to North America
Uses: screen; specimen; no proven urban tolerance
Availability: grown in small quantities by a small number of nurseries

DESCRIPTION

Height: 60 to 120 feet
Spread: 25 to 35 feet
Crown uniformity: symmetrical canopy with a regular (or smooth) outline, and individuals have more or less identical crown forms
Crown shape: pyramidal
Crown density: moderate

Figure 1. Mature Coast Redwood.

Growth rate: medium
Texture: fine

1. This document is adapted from Fact Sheet ST-589, a series of the Environmental Horticulture Department, Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida. Publication date: October 1994.

2. Edward F. Gilman, associate professor, Environmental Horticulture Department; Dennis G. Watson, associate professor, Agricultural Engineering Department, Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida, Gainesville FL 32611.

Figure 2. Shaded area represents potential planting range.

Foliage

Leaf arrangement: alternate; spiral
Leaf type: simple
Leaf margin: entire
Leaf shape: needle-like (filiform)
Leaf venation: none, or difficult to see; parallel
Leaf type and persistence: evergreen; needle leaf evergreen
Leaf blade length: less than 2 inches
Leaf color: green
Fall color: no fall color change
Fall characteristic: not showy

Flower

Flower characteristics: inconspicuous and not showy

Fruit

Fruit shape: oval; round
Fruit length: .5 to 1 inch
Fruit covering: dry or hard
Fruit color: brown
Fruit characteristics: does not attract wildlife; inconspicuous and not showy; no significant litter problem

Trunk and Branches

Trunk/bark/branches: droop as the tree grows, and will require pruning for vehicular or pedestrian clearance beneath the canopy; should be grown with a single leader; very showy trunk; no thorns
Pruning requirement: needs little pruning to develop a strong structure
Breakage: resistant
Current year twig color: brown; green
Current year twig thickness: medium; thin
Wood specific gravity: 0.35

Culture

Light requirement: tree grows in part shade/part sun; tree grows in full sun
Soil tolerances: clay; loam; sand; slightly alkaline; acidic; occasionally wet; well-drained
Drought tolerance: moderate

Other

Roots: surface roots are usually not a problem
Winter interest: tree has winter interest due to unusual form, nice persistent fruits, showy winter trunk, or winter flowers
Outstanding tree: not particularly outstanding
Invasive potential: little, if any, potential at this time
Ozone sensitivity: tolerant
Verticillium wilt susceptibility: not known to be susceptible
Pest resistance: long-term health usually not affected by pests

USE AND MANAGEMENT

Redwood maintains a pyramidal form and dark green foliage throughout the year. Planted in a row 15 to 20 feet apart they make a nice screen. In areas outside California and the Northwest, it is probably best used occasionally as a novelty specimen.

Redwood is tolerant of flooding, making best growth along stream banks and flood plains. Irrigation helps maintain a vigorous tree in other sites. Allow plenty of soil space for proper development.

Propagation is possible from seed and through vegetative propagation.

Pests

Few insects were noted for *Sequoia* species.

Diseases

No diseases are of major concern.

Sequoia sempervirens is resistant to oak root fungus.