# **ARBORIST REPORT**

January 31, 2019 5562.00

#### PROJECT

303 S Almaden Blvd. San Jose, CA

#### **PREPARED FOR**

**David Powers and Associates** 

#### **PREPARED BY**

HMH 1570 Oakland Road San Jose, CA 95131 William Sowa ISA Certified Arborist #WE-12270A



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#### **INTRODUCTION AND OVERVIEW**

HMH was contracted to complete a survey, assessment and arborist report for trees located within the limit of work illustrated on Exhibit A. The project site encompasses a parking lot along South Almaden Blvd. with an office building to the north, the Guadalupe River on the west, and Woz Way to the south. There are two stands of trees on the north and south edge. Our scope of services includes locating, measuring DBH, assessing, and photographing the condition of all trees within the limit of work. Disposition and health recommendations are based on current site conditions. Site development/design may affect the preservation suitability.

#### **METHODOLOGY**

Our tree survey work is a deliberate and systematic methodology for cataloging trees on site:

- 1. Identify each tree species.
- 2. Note each tree's location on a site map.
- 3. Measure each trunk circumference at 4.5' above grade per ISA standards.
- 4. Evaluate the health and structure of each tree using the following numerical standard:

5 - A healthy, vigorous tree, reasonably free of disease, with good structure and form typical of the species.

4 - A tree with slight decline in vigor, small amount of twig dieback, minor structural defects that could be corrected.

**3** - A tree with moderate vigor, moderate twig and small branch dieback, thinning of crown, poor leaf color, moderate structural defects that may that might be mitigated with care.

**2** - A tree in decline, epicormic growth, extensive dieback of medium to large branches, significant structural defects that cannot be abated.

**1** - A tree in severe decline, dieback of scaffold branches and or trunk, mostly epicormic growth; extensive structural defects that cannot be abated.

0 - Tree is dead.

#### **SUMMARY OF FINDINGS**

HMH conducted a tree inventory of 28 trees located within the limit of work outlined in Exhibit A. 19 of the trees inventoried are classified as ordinance-sized trees under the City of San Jose Tree Removal permit.

An ordinance-size tree is:

Single Trunk - 38 inches or more in circumference at 4  $\frac{1}{2}$  feet above ground; or Multi-trunk - The combined measurements of each trunk circumference (at 4  $\frac{1}{2}$  feet above ground) add up to 38 inches or more.

There were only two tree species on the site with one species making up 68% of the site.

Table 1 - Tree Quantity Summary summarizes tree quantities by both species and size. Each species that was inventoried as part of this scope is included. This is a useful tool for analyzing the mixture of trees as part of the project.

Table 2 - Tree Evaluation Summary lists each tree number, botanical name, common name, DBH, circumference, ordinance trees, health rating, preservation suitability, general notes and observations and recommendations.

See Exhibit A for Tree Location Map See Table 1 for Tree Quantity Summary See Table 2 for Tree Evaluation Summary

#### **GENERAL OBSERVATIONS AND RECOMMENDATIONS**

**Species:** *Cinnamomum camphora* (Camphor Tree)

#### Quantity: 19

#### **Observations / Recommendations:**

The camphor trees are the street tree along Woz Way. There are located both in the park strip between the curb and sidewalk and in the planter strip between sidewalk and screen wall along the parking walk. There is a variation in canopy, height, and vigor amongst all of these trees. Many of them seemed to be stressed by drought and lack of nutrients by nature of yellowing leaves. A few had some crown dieback and crown thinning. One tree appeared dead as it had no leaves. The Camphor is an evergreen tree. The structure for most of the trees was average and it look like they had been regularly pruned. One tree was pruned off the street light and had irregular shape. Also, the way these trees were planted a number of them have been crowded which is affecting canopy shape. If these trees are to remain additional supplemental water as WULCOLS has this tree classified as a medium water use tree. Select removal of the poor performing trees could help other adjacent trees. A regular fertigation program would help the nutrient deficiency.

## Species: Carpinus betulus (European Hornbeam)

#### Quantity: 9

#### **Observations / Recommendations:**

The European Hornbeam trees are large multistem specimens along the north edge of the site between the parking lot and the adjacent property sidewalk. The trees were deciduous during the review, so the observations were limited to the structure of the trees. These trees appear to be health and already showing some terminal bud development on the stems of the branches. It appears these trees are getting supplemental water as there is additional ground level ornamental vegetation that is being irrigated. WULCOLS has this tree classified as a medium water use tree. The trees could benefit from some light structural pruning but not as to reduce the character of the tree.

#### **RECOMMENDATIONS FOR TREE PROTECTION DURING CONSTRUCTION**

**Site preparation:** All existing trees shall be fenced off 10' beyond the outside the drip line (foliar spread) of the tree. Alternatively, where this is not feasible, fence to the drip line of the tree. Where fencing is not possible, the trunk shall be protected straw waddle and orange snow fencing. The fence should be a minimum of six feet high, made of pig wire with steel stakes or any material superior in quality, such as cyclone fencing. Tree protection zone sign shall be affixed to fencing at appropriate intervals as determined by the arborist on site. If the fence is within the drip line of the trees, the foliar fringe shall be raised to offset the chance of limb breakage from construction equipment encroaching within the drip line. All contractors, subcontractors and other personnel shall be warned that encroachment within the fenced area is forbidden without the consent of the certified arborist on the job. This includes, but is not limited to, storage of lumber and other materials, disposal of paints, solvents or other noxious materials, parked cars, grading equipment or other heavy equipment. Penalties, based on the cost of remedial repairs and the evaluation guide published by the international society of arboriculture, shall be assessed for damages to the trees. See tree preservation detail for additional information, including tree protection zone sign.

**Grading/excavating:** All grading plans that specify grading within the drip line of any tree, or within the distance from the trunk as outlined in the site preparation section above when said distance is outside the drip line, shall first be reviewed by a certified arborist. Provisions for aeration, drainage, pruning, tunneling beneath roots, root pruning or other necessary actions to protect the trees shall be outlined by an arborist. If trenching is necessary within the area as described above, said trenching shall be undertaken by hand labor and dug directly beneath the trunk of the tree. All roots 2 inches or larger shall be tunneled under and other roots shall be cut smoothly to the trunk side of the trench. The trunk side should be draped immediately with two layers of untreated burlap to a depth of 3 feet from the surface. The burlap shall be soaked nightly and left in place until the trench is back filled to the original level. An arborist shall examine the trench prior to back filling to ascertain the number and size of roots cut, so as to suggest the necessary remedial repairs.

**Remedial repairs:** An arborist shall have the responsibility of observing all ongoing activities that may affect the trees, and prescribing necessary remedial work to ensure the health and stability of the trees. This includes, but is not limited to, all arborist activities brought out in the previous sections. In addition, pruning, as outlined in the "pruning standards" of the western chapter of the International Society of Arboriculture, shall be prescribed as necessary. Fertilizing, aeration, irrigation, pest control and other activities shall be prescribed according to the tree needs, local site requirements, and state agricultural pest control laws. All specifications shall be in writing. For pest control operations, consult the local county agricultural commissioner's office for individuals licensed as pest control advisors or pest control operators.

**Final inspection:** Upon completion of the project, the arborist shall review all work undertaken that may impact the existing trees. Special attention shall be given to cuts and fills, compacting, drainage, pruning and future remedial work. An arborist should submit a final report in writing outlining the ongoing remedial care following the final inspection.

#### MAINTENANCE RECOMMENDATIONS FOR TREES TO REMAIN

Regular maintenance, designed to promote plant health and vigor, ensures longevity of existing trees. Regular inspections and the necessary follow-up care of mulching, fertilizing, and pruning, can detect problems and correct them before they become damaging or fatal.

**Tree Inspection:** Regular inspections of mature trees at least once a year can prevent or reduce the severity of future disease, insect, and environmental problems. During tree inspection, four characteristics of tree vigor should be examined: new leaves or buds, leaf size, twig growth, and absence of crown dieback (gradual death of the upper part of the tree). A reduction in the extension of shoots (new growing parts), such as buds or new leaves, is a fairly reliable cue that the tree's health has recently changed. Growth of the shoots over the past three years may be compared to determine whether there is a reduction in the tree's typical growth pattern. Further signs of poor tree health are trunk decay, crown dieback, or both. These symptoms often indicate problems that began several years before. Loose bark or deformed growths, such as trunk conks (mushrooms), are common signs of stem decay. Any abnormalities found during these inspections, including insect activity and spotted, deformed, discolored, or dead leaves and twigs, should be noted and observed closely.

**Mulching:** Mulch, or decomposed organic material, placed over the root zone of a tree reduces environmental stress by providing a root environment that is cooler and contains more moisture than the surrounding soil. Mulch can also prevent mechanical damage by keeping machines such as lawn mowers and string trimmers away from the tree's base. Furthermore, mulch reduces competition from surrounding weeds and turf. To be most effective, mulch should be placed 2 to 4 inches deep and cover the entire root system, which may be as far as 2 or 3 times the diameter of the branch spread of the tree. If the area and activities happening around the tree do not permit the entire area to be mulched, it is recommended that as much of the area under the drip line of the tree is mulched as possible. When placing mulch, care should be taken not to cover the actual trunk of the tree. This mulch-free area, 1 to 2 inches wide at the base, is sufficient to avoid moist bark conditions and prevent trunk decay. An organic mulch layer 2 to 4 inches deep of loosely packed shredded leaves, pine straw, peat moss, or composted wood chips is adequate. Plastic should not be used as it interferes with the exchange of gases between soil and air, which inhibits root growth. Thicker mulch layers, 5 to 6 inches deep or greater, may also inhibit gas exchange.

Fertilization: Trees require certain nutrients (essential elements) to function and grow. Urban landscape trees may be growing in soils that do not contain sufficient available nutrients for satisfactory growth and development. In certain situations, it may be necessary to fertilize to improve plant vigor. Fertilizing a tree can improve growth; however, if fertilizer is not applied wisely, it may not benefit the tree at all and may even adversely affect the tree. Mature trees making satisfactory growth may not require fertilization. When considering supplemental fertilizer, it is important to consider nutrients deficiencies and how and when to amend the deficiencies. Soil conditions, especially pH and organic matter content, vary greatly, making the proper selection and use of fertilizer a somewhat complex process. To that end, it is recommended that the soil be tested for nutrient content. A soil testing laboratory and can give advice on application rates, timing, and the best blend of fertilizer for each tree and other landscape plants on site. Mature trees have expansive root systems that extend from 2 to 3 times the size of the leaf canopy. A major portion of actively growing roots is located outside the tree's drip line. Understanding the actual size and extent of a tree's root system before applying fertilizer is paramount to determine quantity, type and rate at which to best apply fertilizer. Always follow manufacturer recommendations for use and application.

**Pruning:** Pruning is often desirable or necessary to remove dead, diseased, or insect-infested branches and to improve tree structure, enhance vigor, or maintain safety. Because each cut has the potential to change the growth of (or cause damage to) a tree, no branch should be removed without reason. Removing foliage from a tree has two distinct effects on growth: (1) it reduces photosynthesis and, (2) it may reduce overall growth. Pruning should always be performed sparingly. Caution must be taken not to over-prune as a tree may not be able to gather and process enough sunlight to survive. Pruning mature trees may require special equipment, training, and experience. Arborists are equipped to provide a variety of services to assist in performing the job safely and reducing risk of personal injury and property damage (*See also Addendum A - ANSI A300 Part 1 Pruning Standards*).

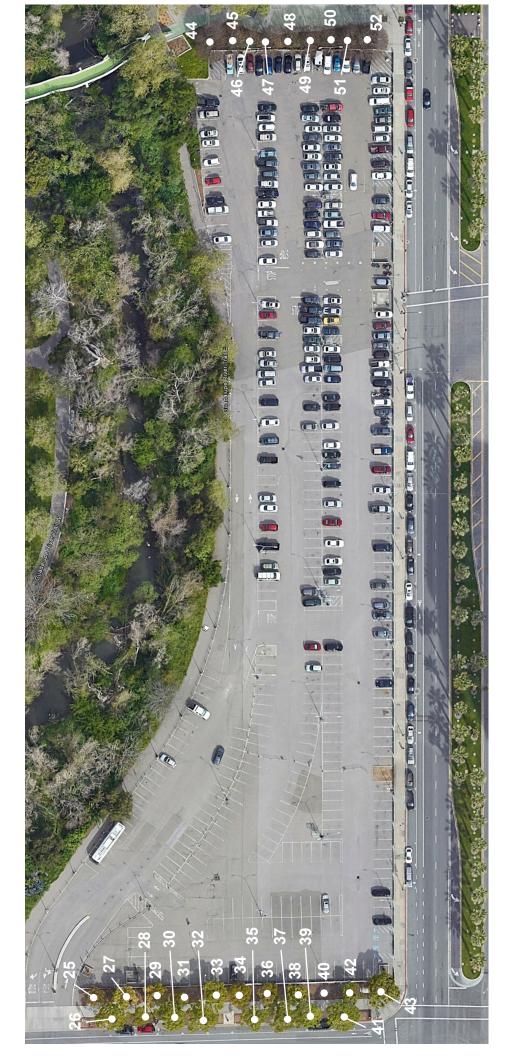
**Removal:** There are circumstances when removal is necessary. An arborist can help decide whether or not a tree should be removed. Professionally trained arborists have the skills and equipment to safely and efficiently remove trees. Removal is recommended when a tree: (1) is dead, dying, or considered irreparably hazardous; (2) is causing an obstruction or is crowding and causing harm to other trees and the situation is impossible to correct through pruning; (3) is to be replaced by a more suitable specimen, and; (4) should be removed to allow for construction. Pruning or removing trees, especially large trees, can be dangerous work. It should be performed only by those trained and equipped to work safely in trees.

#### **TERMS AND CONDITIONS**

The following terms and conditions apply to all oral and written reports and correspondence pertaining to consultations, inspections and activities of HMH.

- The scope of any report or other correspondence is limited to the trees and conditions specifically mentioned in those reports and correspondence. HMH assumes no liability for the failure of trees or parts of trees, either inspected or otherwise. HMH assumes no responsibility to report on the condition of any tree or landscape feature not specifically requested by the named client.
- 2. No tree described in this report was climbed, unless otherwise stated. HMH does not take responsibility for any defects, which could have only been discovered by climbing. A full root collar inspection, consisting of excavating the soil around the tree to uncover the root collar and major buttress roots was not performed unless otherwise stated. HMH does not take responsibility for any root defects, which could only have been discovered by such an inspection.
- 3. HMH shall not be required to provide further documentation, give testimony, be deposed, or attend court by reason of this appraisal or report unless subsequent contractual arrangements are made, including payment of additional fees for such services as described by HMH or in the schedule of fees or contract.
- 4. HMH guarantees no warrantee, either expressed or implied, as to the suitability of the information contained in the reports for any reason. It is the responsibility of the client to determine applicability to his/her case.
- 5. Any report and the values, observations and recommendations expressed therein represent the professional opinion of HMH, and the fee for services is in no manner contingent upon the reporting of a specified value nor upon any particular finding to be reported.
- 6. Any photographs, diagrams, graphs, sketches or other graphic material included in any report, being intended solely as visual aids, are not necessarily to scale and should not be construed as engineering reports or surveys, unless otherwise noted in the report. Any reproductions of graphic material or the work produced by other persons, is intended solely for clarification and ease of reference. Inclusion of said information does not constitute a representation by HMH as to the sufficiency or accuracy of that information.
- 7. Trees can be managed, but they cannot be controlled. To live near trees is to accept some degree of risk. The only way to eliminate all risk associated with trees is to eliminate all trees.

Exhibit A Existing Tree Map



## TABLE 1 - TREE QUANTITY SUMMARY

| Tree Quantity by Species |          |           |
|--------------------------|----------|-----------|
| Species                  | Quantity | % of Site |
| Cinnamomum camphora      | 19       | 68%       |
| Carpinus betulus         | 9        | 32%       |
|                          |          |           |
| Total Trees              | 28       | 100%      |

## **TREE EVALUATION SUMMARY**

#### Prepared By: William Sowa ISA Certified Arborist WE-12270A

DBH MEASUREMENT HEIGHT: 54"

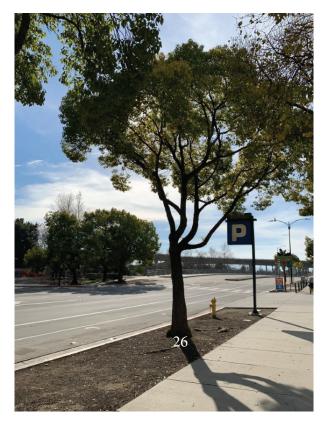
Date of Evaluation: 1/28/2019

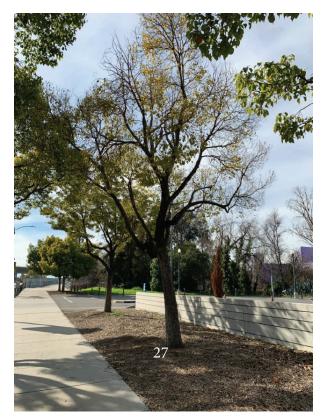
| Suitability  | for Preservation                                      | is based on the following  |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|--|
| Good - Trees   | with good health and                                  | structural stability that have the potential for longevity at the site.  |  |  |  |  |  |  |
|  |   | lining health and/or exhibits structural defects that cannot be abated with treatment. Trees will require more intense management and will have a shorter lifespan than those  |  |  |  |  |  |  |
| in the 'Good' o  | category.   |  |  |  |  |  |  |  |
| Poor - Trees i   | n poor health or with                                 | significant structural defects that cannot be mitigated. Tree is expected to decline, regardless of treatment.   |  |  |  |  |  |  |
| Health Rat   | ing   |  |  |  |  |  |  |  |
| <b>5</b> A   | healthy, vigorous tree                                | e, reasonably free of disease, with good structure and form typical of the species.  |  |  |  |  |  |  |
| <b>4</b> A   | tree with slight declin                               | e in vigor, small amount of twig dieback, minor structural defects that could be corrected.  |  |  |  |  |  |  |
|  |   | gor, moderate twig and small branch dieback, thinning of crown, poor leaf color, moderate structural defects that may that might be mitigated with care.   |  |  |  |  |  |  |
|  |   | rmic growth, extensive dieback of medium to large branches, significant structural defects that cannot be abated.  |  |  |  |  |  |  |
|  |   | e, dieback of scaffold branches and or trunk, mostly epicormic growth; extensive structural defects that cannot be abated.   |  |  |  |  |  |  |
|  | ree is dead.  |  |  |  |  |  |  |  |
|  | ons and Definition                                    |  |  |  |  |  |  |  |
|  |   | Forked branches nearly the same size in diameter, arising from a common junction an lacking a normal branch union.   |  |  |  |  |  |  |
|  | ieback in Crown                                       | Condition where branches in the tree crown die from the tips toward the center.  |  |  |  |  |  |  |
| CR CI  |   | Tree is bounded closely by one or more of the following: structure, tree, Etc.   |  |  |  |  |  |  |
|  | ecline  | Tree shows obvious signs of decline, which may be indicative of the presence of multiple biotic and abiotic disorders.   |  |  |  |  |  |  |
| DBH <sup>Di</sup><br>He  | iameter at Breast<br>eight                            | Measurement of tree diameter in inches. Measurement height varies by City and is noted above.  |  |  |  |  |  |  |
|  |   | Watersprouting on trunk and main leaders. Typically indicative of tree stress.   |  |  |  |  |  |  |
|  |   | Exposure of the tree's heartwood is typically seen as an open wound that leaves a tree more susceptible to pathogens, disease or infection.  |  |  |  |  |  |  |
|  |   | A tree that in it's current condition, presents a hazard.  |  |  |  |  |  |  |
| HD He  |   | Poor pruning practice of cutting back branches. Often practiced under utility lines to limit tree height.  |  |  |  |  |  |  |
| IB In  | cluded Bark   | Structural defect where bark is included between the branch attachment so the wood can't join. Such defect can have a higher probability of failure.   |  |  |  |  |  |  |
| LC Lo  | ow crotch   | Multiple central leaders originating below the DBH measurement site.   |  |  |  |  |  |  |
| LN Le  | LN Leaning Tree Tree leaning, see notes for severity. |  |  |  |  |  |  |  |
| ML M   |   | More than one upright primary stem   |  |  |  |  |  |  |
| PT Phototropism Tree exhibits phototropic growth habits. Reduced trunk taper, misshapen trunk and canopy growth are examples of this growth habit. |   |  |  |  |  |  |  |  |
| S Si   | uckers  | Shoot arising from the roots.  |  |  |  |  |  |  |
| SD St  | tructural Defects                                     | Naturally or secondary conditions including cavities, poor branch attachments, cracks, or decayed wood in any part of the tree that may contribute to structural failure.  |  |  |  |  |  |  |
| SE Se  |   | Indicates the severity of the following term.  |  |  |  |  |  |  |
| SL SI  | 2   | Indicates the mildness of the following term.  |  |  |  |  |  |  |
|  |   | Roots visible at finished grade.   |  |  |  |  |  |  |
| ST St  |   | Environmental factor inhibiting regular tree growth. Includes drought, salty soils, nitrogen and other nutrient deficiencies in the soil.  |  |  |  |  |  |  |
| WU W   | /eak Union  | Weak union or fork in tree branching structure.  |  |  |  |  |  |  |
| O  | rdinance Tree   | Ordinance-Size Trees.An ordinance-size tree is: Single Trunk - 38 inches or more in circum-ference at 4 ½ feet above ground; orMulti-trunk - The combined measurements of each trunk circumference (at 4 ½ feet above ground) add up to 38 inches or more. |  |  |  |  |  |  |

| TREE # | BOTANICAL NAME         | COMMON NAME          | DBH<br>(INCHES) | CIRCUMF-<br>ERENCE<br>(INCHES) | ORDINANCE TREE | HEALTH | PRESERVATION<br>SUITABILITY | STRUCTURE | NOTES           |
|--------|------------------------|----------------------|-----------------|--------------------------------|----------------|--------|-----------------------------|-----------|-----------------|
| 25     | Cinnamomum<br>camphora | Camphor Tree         | 10.0            | 31                             |                | 3      | Moderate                    | Single    | CR              |
| 26     | Cinnamomum<br>camphora | Camphor Tree         | 16.0            | 50                             | Y              | 3      | Moderate                    | Single    | CR              |
| 27     | Cinnamomum<br>camphora | Camphor Tree         | 11.0            | 35                             |                | 2      | Poor                        | Single    | ST, CR, SD, CDB |
| 28     | Cinnamomum<br>camphora | Camphor Tree         | 16.5            | 52                             | Y              | 4      | Good                        | Single    | CR              |
| 29     | Cinnamomum<br>camphora | Camphor Tree         | 8.5             | 27                             |                | 3      | Moderate                    | Single    | ST, CR, SD, CDB |
| 30     | Cinnamomum<br>camphora | Camphor Tree         | 15.5            | 49                             | Y              | 3      | Moderate                    | Single    | ST, CR, SD, CDB |
| 31     | Cinnamomum<br>camphora | Camphor Tree         | 11.5            | 36                             |                | 2      | Moderate                    | Single    | CR              |
| 32     | Cinnamomum<br>camphora | Camphor Tree         | 9.0             | 28                             |                | 3      | Moderate                    | Single    | CR              |
| 33     | Cinnamomum<br>camphora | Camphor Tree         | 13.0            | 41                             | Y              | 3      | Moderate                    | Single    | CR              |
| 34     | Cinnamomum<br>camphora | Camphor Tree         | 12.0            | 38                             | Y              | 3      | Moderate                    | Single    | CR              |
| 35     | Cinnamomum<br>camphora | Camphor Tree         | 16.0            | 50                             | Y              | 4      | Good                        | Single    | CR              |
| 36     | Cinnamomum<br>camphora | Camphor Tree         | 9.0             | 28                             |                | 3      | Moderate                    | Single    | ST, CR, SD, CDB |
| 37     | Cinnamomum<br>camphora | Camphor Tree         | 10.0            | 31                             |                | 4      | Good                        | Single    | CR              |
| 38     | Cinnamomum<br>camphora | Camphor Tree         | 5.5             | 17                             |                | 3      | Moderate                    | Single    | SD, ML          |
| 39     | Cinnamomum<br>camphora | Camphor Tree         | 13.5            | 42                             | Y              | 3      | Moderate                    | Single    | SD              |
| 40     | Cinnamomum<br>camphora | Camphor Tree         | 10.0            | 31                             |                | 1      | Poor                        | Single    | DEAD            |
| 41     | Cinnamomum<br>camphora | Camphor Tree         | 19.0            | 60                             | Y              | 4      | Good                        | Single    | CR              |
| 42     | Cinnamomum<br>camphora | Camphor Tree         | 17.0            | 53                             | Y              | 3      | Moderate                    | Single    | ST, CR, SD, CDB |
| 43     | Cinnamomum<br>camphora | Camphor Tree         | 33.0            | 104                            | Y              | 4      | Good                        | Single    |                 |
| 44     | Carpinus betulus       | European<br>hornbeam | 57.5            | 181                            | Y              | 4      | Good                        | Multistem |                 |
| 45     | Carpinus betulus       | European<br>hornbeam | 48.0            | 151                            | Y              | 4      | Good                        | Multistem |                 |

| TREE # | BOTANICAL NAME   | COMMON NAME          | DBH<br>(INCHES) | CIRCUMF-<br>ERENCE<br>(INCHES) | ORDINANCE TREE | HEALTH | PRESERVATION<br>SUITABILITY | STRUCTURE | NOTES |
|--------|------------------|----------------------|-----------------|--------------------------------|----------------|--------|-----------------------------|-----------|-------|
| 46     | Carpinus betulus | European<br>hornbeam | 24.0            | 75                             | Y              | 4      | Good                        | Multistem |       |
| 47     | Carpinus betulus | European<br>hornbeam | 44.0            | 138                            | Y              | 4      | Good                        | Multistem |       |
| 48     | Carpinus betulus | European<br>hornbeam | 63.0            | 198                            | Y              | 4      | Good                        | Multistem |       |
| 49     | Carpinus betulus | European<br>hornbeam | 42.0            | 132                            | Y              | 4      | Good                        | Multistem |       |
| 50     | Carpinus betulus | European<br>hornbeam | 36.0            | 113                            | Y              | 4      | Good                        | Multistem |       |
| 51     | Carpinus betulus | European<br>hornbeam | 44.0            | 138                            | Y              | 4      | Good                        | Multistem |       |
| 52     | Carpinus betulus | European<br>hornbeam | 70.0            | 220                            | Y              | 4      | Good                        | Multistem |       |
|        |                  |                      |                 |                                |                |        |                             |           |       |
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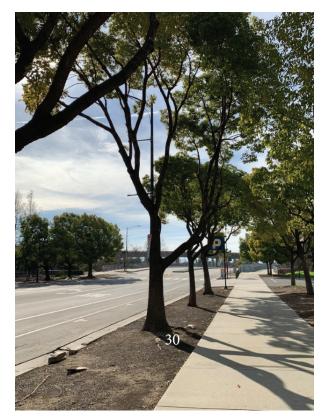




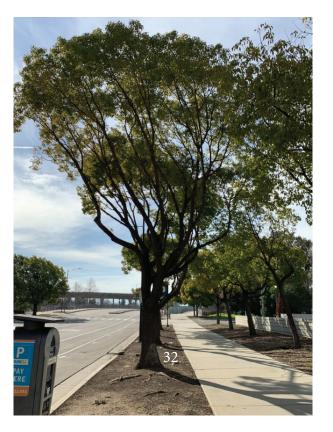




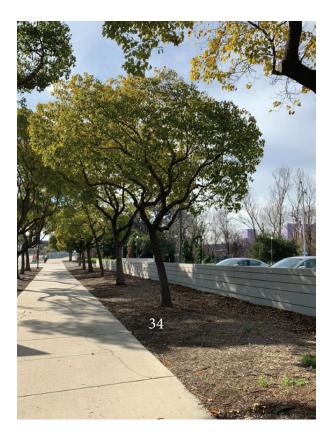


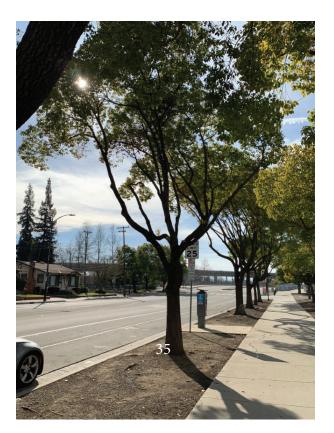










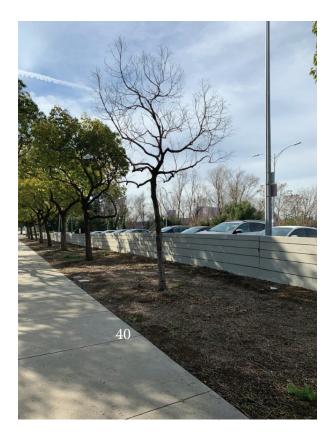




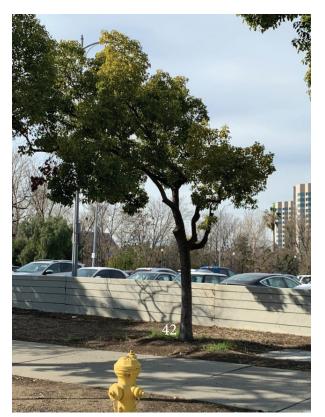


































**Bill Sowa** RLA #4466 Principal

ISA Certified Arborist #WE-12270A

International Society of Arboriculture

American Society of Landscape Architects Member

American Planning Association

Urban Land Institute

USGBC - Silicon Valley Branch US Green Building Council



HMHLASTUDIO.COM 408.487.2200 1570 oakland road san jose ca 95131

#### LANDSCAPE ARCHITECTURE

land use entitlements land planning land development public works civil engineering land surveying stormwater compliance Bill's professional experience of 25 years has involved him in a vast range of public and private land development projects. Areas of expertise include project management, resource allocation, quality control, quality assurance, plan implementation and construction observation. Completed projects under his guidance include public projects, commercial and retail development, single & multi-family residential, senior communities, parks & recreation improvements as well as streetscapes and other urban improvement projects. His oversight of HMH's Landscape Architecture team allows for integration of important theories, methods, and techniques for quality projects.

#### **EXPERIENCE** 25 years

**EDUCATION** Masters in Urban Planning - San Jose State University B.S. Landscape Architecture - California Polytechnic State University Pomone

#### **RELEVANT PROJECT INVOLVEMENT**

#### 1900 Alameda de las pulgas, San Mateo, CA

Bill led the tree tagging, inventory and arborist report for 23 trees around an existing courtyard. The project will remove the concrete, an old fountain and two trees for the replacement of a new amenity space for the future tenant.

#### 303 Almaden Ave, San Jose, CA

Bill led the tree tagging, inventory and arborist report for 28 trees around an existing parking lot. The site is the location of a future office building.

#### Fremont Training Center, Fremont, CA

Bill led the tree tagging, inventory and arborist report for 45 trees around an existing building and parking lot. The project goal is to take a temporary parking lot and covert it to a larger permanent parking lot and update accessibility for the public.

#### 280 / Wolfe Landscape Improvements, Cupertino, CA

Bill provided QA/QC for the arborist services and tree mitigation reports for the I-280 / Wolfe Road Interchange Improvements project. The project aims to improve traffic operations and provide multimodal transportation services for pedestrians, bicyclists and high occupancy vehicle use.

#### 700 Saratoga Ave, San Jose, CA

Bill managed the project tree inventory and documentation for the 6.83 acre multi-family residential site. He was responsible for providing an arborist analysis. The project required coordination with the topographic field survey to locate all trees and to produce a location map. In addition, a complete tree inventory and arborist report was also created.

#### 145 East Dana Street, Mountain View, CA

The 0.91 acre commercial project required a thorough tree protection plan with construction fencing. Bill provided his expertise in heritage tree protection guidelines per the local agency requirements.

#### 1-3 Park Place, Dublin, CA

Bill performed an arborist analysis and tree inventory on the market-ready project while providing documentation and his analysis of the 4.86 acre site. In addition to overseeing the project's arborist needs, Bill also provided construction observation and recommendations.