Appendix 3.2-2

Tree Inventory

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Date: 2/15/2024

Letter of Transmittal / Tanforan Mall Tree Survey

Toon Jordan
ARE - San Francisco No. 69 LLC
1700 Owens Street, #590
San Francisco, CA 94158

To whom it may concern:

Walter Levison, Consulting Arborist (WLCA) was retained by ARE to prepare a pre-demolition assessment of trees of all sizes and species located within the existing Tanforan Mall property lines, and trees with canopies hanging over the property lines. The tree data assembled by WLCA in Excel format, and all tree map markup sheets indicating WLCA's numeric tree tag number locations, have been attached to the end of this letter of transmittal for easy reference, including an additional "partial tree data set" showing only heritage tree designate specimens that were pulled out from the full tree data table for easier reference.

WLCA's findings in terms of heritage tree specimens, existing tree conditions and tree species, and the City tree ordinance, are discussed below.

Note that for the purposes of this initial letter of transmittal, which is not a formalized "arborist report" per say, WLCA assumed that all 117 tree specimens in the tree study by WLCA will eventually be removed over time, as part of the planned redevelopment of the land area currently known as "Tanforan Mall".

GENERAL IMPRESSIONS

Many trees at Tanforan Mall exhibit canopy growth with minor to moderate canopy lopsidedness and mainstem lean in the eastward direction, in line with the prevailing wind azimuth which blows from west to east (originating at the Pacific Ocean). Tree overall condition ratings range from "dead" to "good", due to factors such as but not limited to lack of appropriate volume of supplemental irrigation, relatively high velocity winds, cool year round site conditions, species inappropriateness, species susceptibility to known pest and disease pathogen issues, and small dimension planter areas with inadequate cubic footage of rootable soil volume.

TREE ORDINANCE

WLCA's attached tree data table indicates protection status of each private survey tree specimen, per the City of San Bruno private tree ordinance which governs trees on private lands. An overview of the ordinance can be found on the City of San Bruno official website, and is pasted below for reference. As can be seen in the snippet below, the tree ordinance is somewhat unusual, in that it designates certain native and non-native tree species to be protected at the 6.0 inch mainstem diameter threshold, while all other species are protected at a larger 10.0 inch mainstem diameter threshold.

It is not clear as to why Monterey pine and coast redwood, two tree species **not native to the San Bruno area**, are protected as Heritage Tree designates at this lower 6.0 inch diameter mainstem threshold, given that Monterey pine is a low value species susceptible to pine pitch canker and turpentine beetle infestation, and coast redwood is an extremely fast-growing tree considered to be too large in dimension at maturity and too dependent on high irrigation requirements for general use on Bay Area private lands.

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(From the official website of City of San Bruno, California):

Trees on Private Property
When you prune or remove a tree on your private property, a heritage tree permit might be required.

When Do You Need a Permit?
When requesting to remove a tree that meets the criteria of a heritage tree (see description below).
When pruning a tree and removing up to one-quarter of the crown or existing foliage of the tree, or up to one-quarter of the root system of a tree that meets the criteria of a heritage tree (see description below).

What Is a Heritage Tree?
Any native Bay (Umbellularia californica), Buckeye (Aesculus species), Oak (Quercus species), Redwood (Sequoia sempervirens), or Pine (Pinus radiata) tree that has a diameter of six inches or more measured at fifty-four inches above natural grade;
Any tree or stand of trees designated by resolution of the city council to be of special historical value or of significant community benefit;
A stand of trees, the nature of which makes each dependent on the others for survival; or
Any other tree with a trunk diameter of ten (10) inches or more, measured at fifty-four (54) inches above natural grade.
The City's Heritage Tree Ordinance declares such trees, whether located on City or private property, to be an asset to the community at large and provides penalties for removing or improperly pruning these trees.

Who Needs a Permit?
Any person who wishes to remove or prune, or cause to be removed or pruned any heritage tree from any parcel of property that they own in the city either public or private.

Note: Removal or pruning of heritage trees in conjunction with a planning or building permit application also requires a separate heritage tree permit.

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QUICK OVERVIEW OF TREES

- Heritage Trees (Protected-Status Trees) / Total Number:
  49 out of 117 (42% of study population). See also attached supplemental tree data table by WLCA in Excel format showing only "heritage trees", by tree tag number, in ascending order.

- Heritage Trees / Specimens in Very Poor or Dead Condition:
  3 out of 49 total heritage trees (trees #39, #41, and #80).

- Non-Heritage Trees / Total Number:
  68 out of 117 (58% of the study population).

- Non-Heritage Trees / Specimens in Very Poor or Dead Condition:
  13 out of 68 trees.

- Elevated Risk Trees[1] in Study Population:
  #32 (Monterey pine) and #44 (fruiting European olive).

[1] Risk assessment was not a component of this initial WLCA tree study assignment, and the above information on risk is provided as a courtesy to the Client and client's representatives, in order to identify trees which may need to be removed for safety purposes. There may or may not be additional "elevated risk" tree specimens within the study population.

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TABLE 1: TREE STUDY POPULATION / TREES LISTED BY COMMON NAME

Tree Common Name (Ascending Alphabetical Order)	Quantity in Study Population	Condition Rating Range
Arborvitae (shrub)	6	Dead
Brush cherry (non native)	1	Poor
Avocado (edible) (non native)	1	Good
Blackwood acacia (non native)	9	Fair to Good
Coast live oak hybrid (native)	1	Fair
Coast live oak (native)	5	Poor to Fair
Crape myrtle (non native)	5	Fair to Good
Fruiting European olive (non native)	2	Fair
Fire thorn (shrub) (non native)	2	Fair
Holly oak (non native)	14	Dead to Good
Italian stone pine (non native)	3	Good
Japanese flowering cherry cultivar (non native)	10	Dead to Good
Lombardy poplar (non native)	20	Very poor to Good
London plane tree cultivars (non native)	15	Fair to Good
Monterey pine (non native)	2	Poor to Fair
Myoporum tree (non native)	11	Very poor to Fair
Red maple cultivars (non native)	5	Poor to Good
Silk oak (non native)	1	Fair
Tasmanian blue gum eucalyptus (non native)	1	Good
Unknown species (some of these may be volunteer trees)	3	Dead to Good
	Total: 117 tree specimens	

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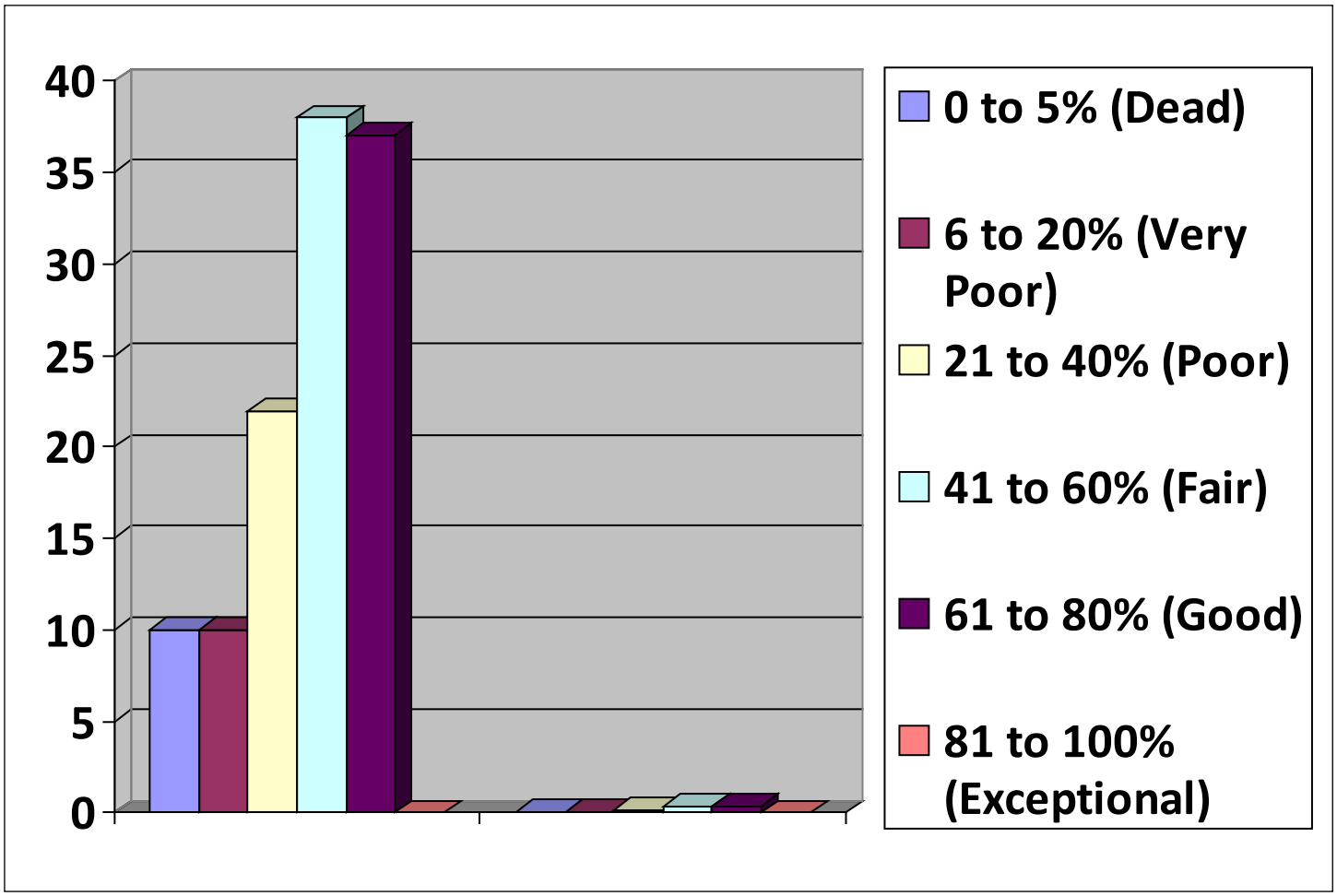
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TABLE 2 / GRAPH 2: TREE STUDY POPULATION / TREES LISTED BY OVERALL CONDITION RATING

TOTAL 117 TREES (HERITAGE STATUS AND NON-HERITAGE STATUS)

Overall Condition Rating Range	Quantity in Tree Study Population	Percentage (%) of Tree Study Population
0 to 5% (Dead)	10	8.5%
6 to 20% (Very Poor)	10	8.5%
21 to 40% (Poor)	22	19%
41 to 60% (Fair)	38	32.5%
61 to 80% (Good)	37	31.5%
81 to 100% (Exceptional)	0	0%
	Total: 117 Trees	



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DISCUSSION OF EXISTING TANFORAN MALL SITE TREE SPECIES
(IN NO PARTICULAR ORDER, PARTIAL LIST)

- **London plane tree (*Platanus x hispanica*)** installed along El Camino Real is a tough street tree species appropriate for use in Tanforan Mall's climate, which is referred to in the trade as "**Sunset Zone 17**": a marine-influenced geographical band that rings the entire Bay Area bayside, consisting of mild, wet, almost frostless winter conditions with foggy, windy cool summer weather. 'Columbia' plane tree is the preferred cultivar of London plane tree for use in the Bay Area to avoid fungus infection issues with foliage, though even 'Columbia' can struggle when used in Zone 17. The cultivars of London plane tree installed at Tanforan have not been verified as of the date of writing. Note that this species does tend to perform better in irrigated landscapes such as turf lawns.

  Note that the landscape company who installed some of the plane trees used two (2) 4 inch diameter perforated PVC tubes mounted vertically at either side of the rootballs of London plane tree specimens #104 through #111 on the east side of El Camino Real (see digital images by WLCA below for reference). There is a single ½ inch diameter high flow flood bubbler mounted inside each of these tubes, so that irrigation water applications essentially flood the tube, and are then expected to somehow enter the rootball of the tree through lateral (sideways) movement. However, per WLCA's experience with tree plantings since 1999, this older 1970's Caltrans spec method indicated on a very old California Transit landscape architect side cut detail is ineffective, and essentially results in tree plantings remaining stunted in the ground with subnormal growth performance, due to the fact that irrigation water never truly saturates the rootball itself. A better specification for irrigation setup would have been to mount two (2) ½ inch diameter vandal resistant type high flow flood bubblers directly over the rootball of each tree, connected to vandal resistant thick walled flexible black PVC tubing such as Jain brand, Salco brand, etc., which is extremely tough (yet flexible). It is not clear why thousands of commercial and residential sites in California keep using this ineffective "Caltrans spec" planting which involves the use of bubblers mounted inside of two (2) vertically oriented white PVC tubes on either side of a tree rootball.

  (A) At Right: Existing Tanforan site condition, consisting of two 4 inch diameter perforated PVC tubes mounted vertically on either side of London plane tree rootball, with ½ inch diameter high flow flood bubbler set inside the tube itself (visible as a black circular cap inside the tube). This method of irrigation delivery is considered ineffective by most arborists, as it essentially floods the soil at the edge of the original planting pit wall, and not the tree rootball itself. Trees with this type of irrigation often end up stunted with subnormal growth performance, due to lack of irrigation (i.e. lack of saturation of the rootball), even though the system "appears" to be delivering a large volume of supplemental water to the tree. This system is not effective and not recommended. It was based on a 1970's Caltrans landscape architect side cut detail that for some reason got copied and pasted into thousands of landscape architects' specification lists. It is not clear why professionals in California have not deleted this ineffective specification from their files, given that tens of thousands of trees installed with bubbler-in-perforated-pipe systems have declined or died prematurely with relatively poor growth performance as a direct result of using this (lateral) water delivery system.



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(B) WLCA's suggested optimal irrigation system, consisting of two ½ inch diameter flood bubblers emitting irrigation water directly over the rootball, with a high elevation watering berm built up as a circle over the edge of rootball to encourage vertical percolation directly downward, such that the rootball is completely saturated after the system is activated for a set timer-activated period of time.

The use of vandal-resistant thick walled Jain or Salco brand flexible black PVC tubing is highly recommended. This material is something like 5mm wall thickness, which resists cuts and tears as well as vandalism and rodent chewing, is UV resistant, and as noted above FLEXIBLE.



Because it is PVC material, the flexible tubes can be easily cold welded (blue glue solvent welding) as per standard PVC irrigation component build procedure, which means that standard white colored schedule 40 PVC components, for instance, can be quickly glued onto the flexible tubing with PVC blue glue. In the image above right, a ½ inch diameter white schedule 40 PVC threaded connector is blue glued to the black Salco flexible PVC piping, and a black 1.0 gallon per minute vandal resistant high flow flood bubbler simply screwed onto the white PVC threaded connector.



Note on watering berms: the packed soil watering berm height needs to be maintained at approximately 4 inches above surrounding grade, and approximately 8 inches wide, **directly over the tree rootball edge**, in order to build up an irrigation water "head" and force the head of water to percolate directly downward into the tree rootball. See images below right and below left on this page.





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- **Holly oak (*Quercus ilex*)** is a Mediterranean species native to coastal zones where it thrives. However, in Sunset Zone 17 (Tanforan Mall), this tree is often plagued with subnormal stunted growth performance and unsightly infections by sooty mold fungus (*Ascomycete* fungi) which cause the undersides of the foliage to appear black in color. During WLCA's Tanforan survey, holly oak specimens at the south end of the site near freeway 380 offramp where being severely affected by an infestation of fruit tree leaf roller caterpillars *(Archips argyrospila):* a pest which commonly chews foliage of live oaks such as coast live oak and holly oak in the Bay Area[2]. Tanforan specimens of holly oak were visibly defoliated by leaf roller chewing to varying degrees, ranging from minor to severe (in some cases almost total 100% canopy defoliation). Vigorous oak specimens can typically withstand such seasonal damage by leaf roller chewing, though trees with poor vigor may decline further and prematurely die as a result of this insect pest feeding on live evergreen foliage.

- **Monterey pine #32 (*Pinus radiata*)** exhibits severe vehicle damage, assumedly caused by an accident whereby a truck or car physically struck the lower mainstem area, resulting in loss of bark on the west side of trunk base. Trees can often withstand up to 40 or 50% of the trunk (mainstem) circumference being damaged or destroyed in terms of bark loss. However, trees with bark or xylem wood tissue damage that exceeds 50% of the mainstem circumference are often considered non-salvageable, and may be good candidates for removal (determined on a case by case basis). Tree #32 damage is 50 to 60% of circumference, with pine pitch canker fungus infection[3] (*Fusarium circinatum*) of the canopy as an additional issue negative affecting tree structural stability and growth performance. The tree is considered an "elevated risk" specimen as of the date of this report writing, and should probably be removed for safety purposes, irrespective of the planned Tanforan demolition and renovation project (risk assessment was not included in the WLCA scope of work for this Tanforan tree survey assignment, and this information is simply provided as a courtesy).

- **Myoporum tree (*Myoporum laetum*)**. These trees have been moderately to severely affected by myoporum thrips insect (*Klambothrips myopori*) sucking on the foliage, which causes puckering of foliage, decline in vigor, and premature decline/death of the tree in terms of severe reductions of live foliage and live twig density. The trees have become basically worthless as a result of the relatively recent thrips issue affecting myoporum trees in the Bay Area, and most land managers opt to simply remove the trees outright, and replace them with different tree species to avoid the unsightly insect infestation issue altogether. Note that there is no known "cure" or treatment for thrips that is non-toxic, economical and effective.

- **Italian stone pine (*Pinus pinea*)** specimens are located in relatively constrictive small dimension planter areas in the south end Tanforan parking lot south of the JC Penny Department Store structure. This tree species is considered somewhat desirable in the Bay Area, as it typically exhibits good growth performance in all climates, though it becomes somewhat structurally compromised over time as it achieves larger proportions, due to heavy endweight (extended length off-vertical multiple mainstem form). Reduction pruning to reduce extended-length mainstems and limbs is typically required to maintain these trees once they achieve large size. The specimens at Tanforan are still relatively very small in stature as of the date of writing, and have probably not yet achieved large enough size to warrant performance of length reduction pruning. The planter dimensions in which these trees are growing are inadequate in terms of cubic volume of rootable soil for the trees, which results in stunted tree growth and displacement/cracking of curbwork, asphalt, and other existing parking lot infrastructure.

[2] Leafrollers on Ornamental and Fruit Trees Management Guidelines--UC IPM (ucanr.edu)
[3] Pitch Canker Management Guidelines--UC IPM (ucanr.edu)

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- **Lombardy poplar (*Populus nigra* 'Italica')** is a low-value, non-desirable tree from an arborist standpoint. There are multiple rows of this species installed in front of BJ's brewery/restaurant, on the north side of the Barnes and Noble book store/café structure, and in various areas of the north parking lots. This species was originally used in California in the 19th and 20th centuries as an agricultural windbreak for the purpose of slowing down central California valley winds on farm and ranch properties. It was also installed extensively during the mid to later 20th century on tech campus properties in the South Bay (silicon valley) as a featured tree in highly irrigated turf lawns blanketing the office entrance areas. Many of those older trees have now failed or been removed due to decline related to stem decline/death/breakage, higher irrigation water needs, etc. The tree exhibits genetically-controlled very upright branch angles of attachment, which means that the growth form is columnar and narrow, and subject to breakages related to windstorm load forces acting on those overly-upright branches.

  Selectree database (online), managed by CalPoly San Luis Obispo, rates that tree species with a branch strength of "weak" on a scale from "weak" to "strong", and a water-use rating of "high", which is not ideal for the drought-stricken Bay Area climate.[4] Based on WLCA's experience consulting for Bay Area projects full time since 1999, this species also seems to decline relatively rapidly with a short to moderate safe and useful lifespan in the landscape, developing deadwood buildup in the canopy as multiple mainstems decline or die, especially in specimens not provided with year round heavy supplemental irrigation water.

  In older iterations of the SelecTree database, this species was noted to have a relatively short life expectancy, though this tree species selection criterion has now been omitted from the database, assumedly due to the fact that life expectancy in the landscape is quite variable, based on individual location rootable soil volume, soil moisture, microclimate, etc.

  Multiple sources indicate this species' susceptibility to "stem canker" (canker species not noted), including the SelecTree database. The stem canker issue may or may not be the cause of advanced wood tissue decay visible in Tanforan Mall trees #89 and #90, which exhibit advanced stage mainstem wood tissue dieback that could be related to a stem canker pathogen, but are most likely related to simple lack of rootable soil volume due to narrow planter dimensions, and due to soil moisture deficit (drought stress): two of the most common causes of decline in urban plantings in my experience.

  Many of the woody buttress roots (aka "anchor roots" or "structural roots") of the Lombardy poplar specimens in the Tanforan Mall north parking lot areas are now engulfing the curbwork along the edges of the very narrow dimension planters. The roots are deformed and deflected by some of the curbs, resulting in what might be a reduction in tree stability due to lack of normal radial woody root extension outward from the mainstem bases, though this is difficult to verify from an initial visual tree assessment (VTA). There were numerous instances visible during WLCA's field survey where Lombardy poplar specimens were surrounded by cracked and displaced curbwork and parking lot asphalt (A/C), which suggests that woody root extension and expansion is still occurring in areas surrounding the mainstem bases of the trees, and that the roots are still able to physically plunge under root barriers and under curbwork, and continue extending outward through the parking lot subbase and/or baserock base sections of the parking lots (not verified).

[4] SelecTree: A Tree Selection Guide (calpoly.edu)

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REPRESENTATIVE IMAGES OF TANFORAN SITE TREES (NOT ALL SITE SPECIES SHOWN)



Lombardy poplars at Barnes and Noble book store café.



Italian stone pine at the south parking lot.



Looking northward at blackwood acacias and holly oaks at the south parking lot.



Foreground center: Looking eastward at Monterey pine #32, south parking lot east entrance road.

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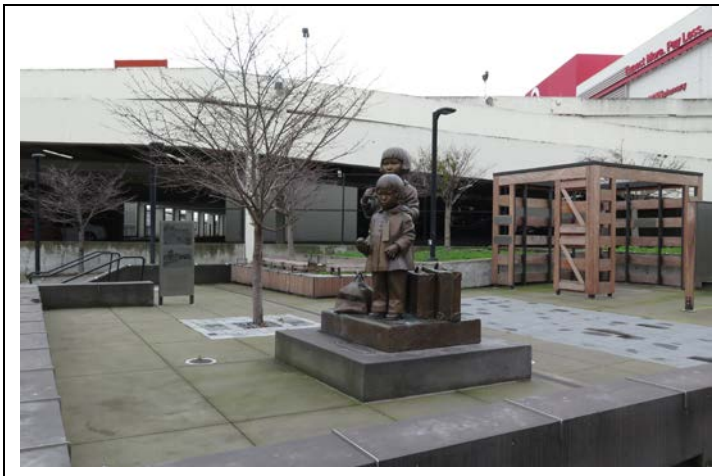
East entrance to the south parking lot.

Holly oaks and fire thorn shrubs.



Macro view of fruit tree leaf rollers in crawler stage, feeding on foliage of holly oaks at the south parking lot. Note the extreme blackened undersides of the foliage, which is a result of sooty mold fungus growing on the foliage: a common disease that is unsightly, typically affecting holly oaks in cooler temperature landscapes such as this San Bruno, CA Tanforan Mall site.

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Japanese flowering cherry trees at Tanforan's Japanese internment camp memorial park near the BART station entrance.



Myoporum tree at the north boundary of Tanforan. These trees in many cases appear to have been severely pruned back by Tanforan maintenance, likely due to stem dieback resulting from myoporum thrips insect feeding activity.

Many of the trees exhibit stem tissue dieback related to tree decline associated with the thrips feeding activity (see next image below left).

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Macro view of stem tissue dieback at lower elevation of a myoporum at the north boundary of Tanforan. This dieback is usually a result of thrips feeding, which causes decline and death of stems. Decaying stems are then pruned out by maintenance personnel, which opens up large diameter pruning cut wounds as potential courts of infection by fungal pathogens. Wood tissue decay causing pathogens (fungi) then enter the tree through those cut wounds, digesting wood as they progress downward from the cuts, causing the type of stem decay seen in the image above. The trees typically die prematurely as a direct result of the thrips feeding activity.



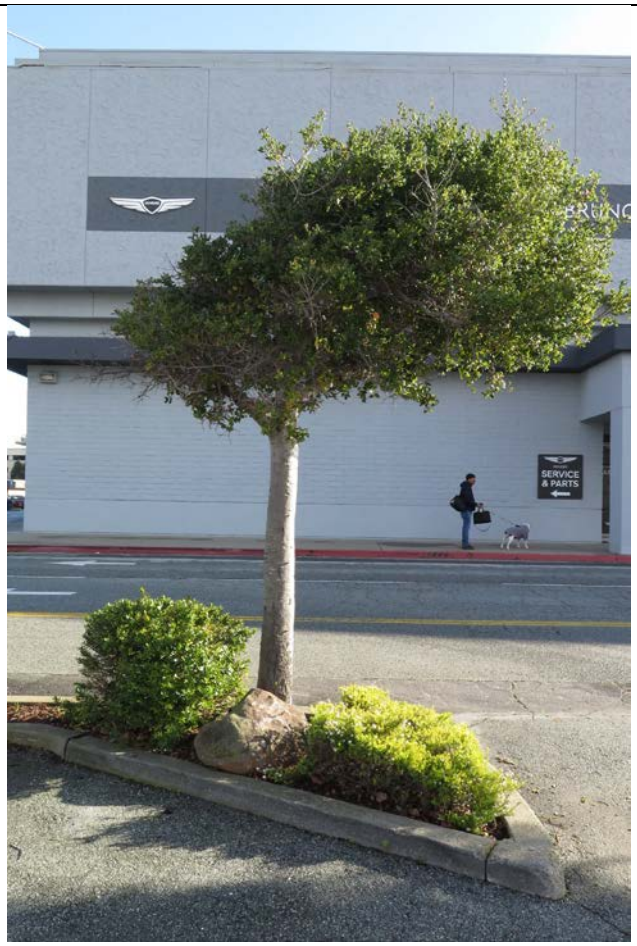
Blackwood acacias growing along the east side of the auto maintenance building in north portion of the Tanforan site, leased by Genesis.

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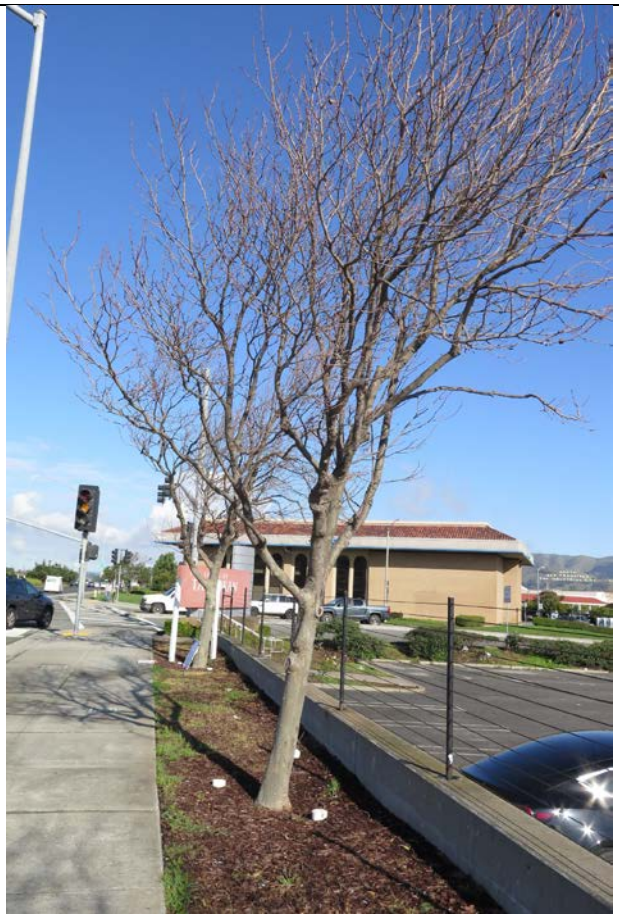


Sidewalk displacement and cracking caused directly by Lombardy poplar root extension and expansion to areas outside of the planter pit edges. The trees appear to have the ability to plunge roots under root barriers and curbwork, and continue extending roots through the subbase and/or the baserock base sections, directly beneath the elevation of concrete and asphalt infrastructure materials in the north parking lot at Tanforan.



Coast live oak with stunted growth in south parking lot due to very limited rootable soil volume in relatively narrow planter. Trees tend to perform with subnormal growth performance and die prematurely when installed in this type of small dimension planter area. Rootable soil volume can be increased through use of cellular soil vaults, structural soil, and deep vertical gravel-filled bore holes beneath the planter, to potentially improve growth performance by newly-planted urban site trees.

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Looking northwestward along El Camino Real at the row of London plane tree specimens installed on Tanforan's street frontage. Note the trees' lean eastward, in the direction of the prevailing winds which blow from the Pacific Ocean eastward.

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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.

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 ground-based visual examination of accessible items without climbing, 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:

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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 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.

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.

Signature of Consultant



DIGITAL BADGES:

ISA CERTIFIED ARBORIST CREDENTIAL:
https://certificates.isa-arbor.com/f1918723-df46-48cc-ace2-c12625530fec#gs.v54om6
(Renewed through June, 2026)

ISA TREE RISK ASSESSMENT QUALIFIED (TRAQ):
https://certificates.isa-arbor.com/d180515f-ab75-440b-9c66-106005e3cf10?record_view=true#gs.hpb30w
(Renewed through March, 2028)

ATTACHED:

1. **TREE DATABASE FULL VERSION (EXCEL FORMAT CONVERTED TO PDF)**
2. **TREE DATABASE PARTIAL (HERITAGE TREES ONLY), BY TREE TAG NUMBER, IN ASCENDING ORDER**
3. **TREE MAP MARKUPS (10 PAGES, USING BKF TOPOGRAPHIC SURVEY AS BASIS)**

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TREE DATA / TANFORAN MALL / SAN BRUNO, CALIFORNIA
Field Survey Date: 2/1/2024 to 2/15/2024
Excel Spreadsheet Preparation: 2/15/2024

Tree Tag #	Planned Tree Removal (TBD)	Tree Map Sheet Number Identifier (10 Sheets Total)	Trunk 1 (in.) at 4.5 feet above grade	Trunk 2 (in.) at 4.5 feet above grade	Trunk 3 (in.) at 4.5 feet above grade	Protected Status as "Heritage Tree" in San Bruno, CA (6"DBH *Quercus sp*., Monterey pine, coast redwood, CA Bay laurel, and CA buckeye. 10"DBH all other 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 Extension & Live Foliar Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Vehicle and/or Machinery Damages (Physical Impact)	Severe Pruning by Tanforan Mall Contractors	Buried Root Crown (BRC), Girdling Roots (GR), or Circling Roots (CR)	"Fruit Tree Leaf Roller" caterpillar chewing damage in Feb 2024 noted as significant or severe (holly oak specimens)	NOTES	PROTECTION AND MAINTENANCE RECOMMENDATIONS (IF TREE TO BE RETAINED AND PROTECTED IN PLACE)
1	X	10	8.5	0.0	0.0		London plane tree cultivar	*Platanus x hispanica*	28/28	75/65	70% Good	Good	East.							Only the "Columbia" cultivar of this tree species is considered desireable as of 2024.	
2	X	10	7.6	0.0	0.0		London plane tree cultivar	*Platanus x hispanica*	24/25	70/50	60% Fair	Good	East.	Bow lean east.						Only the "Columbia" cultivar of this tree species is considered desireable as of 2024.	
3	X	10	7.8	0.0	0.0		London plane tree cultivar	*Platanus x hispanica*	28/35	70/60	65% Good	Good	East.	Bow lean east.						Only the "Columbia" cultivar of this tree species is considered desireable as of 2024.	
4	X	10	7.0	0.0	0.0		London plane tree cultivar	*Platanus x hispanica*	26/23	60/60	60% Fair	Mod	East.	East.						Only the "Columbia" cultivar of this tree species is considered desireable as of 2024.	
5	X	10	8.4	0.0	0.0		London plane tree cultivar	*Platanus x hispanica*	27/33	75/60	66% Good	Good	East.	East.						Only the "Columbia" cultivar of this tree species is considered desireable as of 2024.	
6	X	10	11.8	0.0	0.0		London plane tree cultivar	*Platanus x hispanica*	35/43	80/65	74% Good	Good	East.							Only the "Columbia" cultivar of this tree species is considered desireable as of 2024. Codominant mainstems fork wide angle at 9 feet. Excellent trunk taper development noted.	
7	X	10	10.7	0.0	0.0	X	London plane tree cultivar	*Platanus x hispanica*	33/38	75/65	70% Good	Good	East.	Bow form east.						Only the "Columbia" cultivar of this tree species is considered desireable as of 2024.	
8	X	10	17.3	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	40/19	75/55	65% Good	Good								This species exhibits genetically controlled upright angles of branch attachment that are not ideal. Trees installed in planters with plastic root barriers impeding root extension.	

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9	X	10	13.7	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	33/12	65/50	58% Fair	Good		Southwest.						This species exhibits genetically controlled upright angles of branch attachment that are not ideal. Trees installed in planters with plastic root barriers impeding root extension.	
10	X	10	15.7	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	36/19	75/55	63% Good	Good	East.	East.						This species exhibits genetically controlled upright angles of branch attachment that are not ideal. Trees installed in planters with plastic root barriers impeding root extension.	
11	X	10	12.0	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	40/17	70/50	52% Fair	Good	East.	East.						This species exhibits genetically controlled upright angles of branch attachment that are not ideal. Trees installed in planters with plastic root barriers impeding root extension.	
12	X	10	19.0	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	45/18	75/55	65% Good	Good								This species exhibits genetically controlled upright angles of branch attachment that are not ideal. Trees installed in planters with plastic root barriers impeding root extension.	
13	X	10	12.9	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	35/21	75/55	60% Fair	Good				South side of canopy removed to clear existing bldg.				This species exhibits genetically controlled upright angles of branch attachment that are not ideal. Trees installed in planters with plastic root barriers impeding root extension.	
14	X	10	22.2	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	44/28	80/55	65% Good	Good			Machinery damaged the lower trunk, 2 feet to 7 feet above grade on south side of trunk.					This species exhibits genetically controlled upright angles of branch attachment that are not ideal. Trees installed in planters with plastic root barriers impeding root extension.	

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15	X	10	16.7	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	45/25	80/55	68% Good	Good		East.		South side of canopy removed to clear existing bldg.			This species exhibits genetically controlled upright angles of branch attachment that are not ideal. Trees installed in planters with plastic root barriers impeding root extension.	
16	X	6	22.7	0.0	0.0	X	Italian stone pine	*Pinus pinea*	25/35	90/50	75% Good	Good			Lower elevation stems have been damaged by vehicles passing along road.				The Italian stone pine roots are restricted somewhat in their growth extension, due to narrow dimension planter areas.	
17	X	6	17.1	0.0	0.0	X	Italian stone pine	*Pinus pinea*	22/26	80/60	70% Good	Good		Northeast.					The Italian stone pine roots are restricted somewhat in their growth extension, due to narrow dimension planter areas.	
18	X	6	15.9	0.0	0.0	X	Italian stone pine	*Pinus pinea*	22/26	80/60	70% Good (all same as tree #17).	Good					Possible GR or CR situation.		The Italian stone pine roots are restricted somewhat in their growth extension, due to narrow dimension planter areas.	
19	X	6	6.3	0.0	0.0	X	holly oak	*Quercus ilex*	15/17	75/60	66% Good	Good							Severe sooty mold infection on foliage, which occurs on this species when planted in Sunset Zone 17.	
20	X	6	12.0	0.0	0.0	X	coast live oak	*Quercus agrifolia*	25/35	80/30	45% Fair	Good		Severe lean to northeast, likely associated with girdling roots or circling roots remaining from nursery rootstock.			Possible GR or CR situation.		Tree rights to vertical at 7 feet above grade, after initially leaning severely off-vertical toward the northeast.	
21	X	6	7.0	3.0	2.0	Total of nine (9) stems 2" to 7" diameter each, but none achieve the 10"DBH required minimum needed for this specimen to be considered a "heritage tree".	Australian brush cherry	*Syzygium paniculatum*	22/21	35/50	39% Poor	Poor	East.						Infested by eugenia psyllids, a sucking insect, which is causing puckering of the foliage. Most specimens of this tree species have now been removed in the Bay Area due to psyllid susceptibility.	

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22	X	6	7.6	0.0	0.0	X	coast live oak	*Quercus agrifolia*	19/20	25/25	25% Poor	Poor								Roots restricted in terms of extension growth in narrow planter area.	
23	X	6	12.9	0.0	0.0	X	silk oak	*Grevillea robusta*	45/26	80/35	44% Fair	Good				X				Tree has either been top pruned or the mainstem simply broke out during a storm, at 25 feet above grade.	
24	X	6	4.8	3.4	0.0		avocado (fruit tree)	*Persea americana*	25/16	85/65	75% Good	Good	South west (due to parking garage wall).							Two codominant mainstems fork at 6 inches above grade.	
25	X	6	1.5	0.0	0.0		crape myrtle hybrid	*Lagerstroemia* (named hybrid cultivar)	15/6	60/60	60% Fair	Mod								Tree is still supported with stakes and ties. Recent planting. Irrigation status not verified (may have soil moisture deficit).	
26	X	4	2.0	0.0	0.0		crape myrtle hybrid	*Lagerstroemia* (named hybrid cultivar)	17/9	85/75	80% Good	Good								Tree is still supported with stakes and ties. Recent planting. Irrigation status not verified (may have soil moisture deficit).	
27	X	4	2.1	0.0	0.0		crape myrtle hybrid	*Lagerstroemia* (named hybrid cultivar)	17/8	85/75	80% Good	Good								Tree is still supported with stakes and ties. Recent planting. Irrigation status not verified (may have soil moisture deficit).	
28	X	4	2.3	0.0	0.0		crape myrtle hybrid	*Lagerstroemia* (named hybrid cultivar)	20/12	85/80	82% Good	Good								Tree is still supported with stakes and ties. Recent planting. Irrigation status not verified (may have soil moisture deficit).	
29	X	4	2.1	0.0	0.0		crape myrtle hybrid	*Lagerstroemia* (named hybrid cultivar)	19/12	85/70	74% Good	Good								Tree is still supported with stakes and ties. Recent planting. Irrigation status not verified (may have soil moisture deficit).	

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30	X	6	Est. 5	Est. 4	0.0		Tasmanian blue gum (CALTRANS TREE)	*Eucalyptus globulus*	25/25	90/55	70% Good	Good	North east.							Tree exhibits heavy endweight, which is causing northeasterly drooping of the canopy. Canopy overhangs the Tanforan Mall property line.	
31	X	5	Est. nine stems 1" to 9" dia each	0.0	0.0	X	Appears to be a native oak hybrid (CALTRANS tree growing into our property).	*Quercus sp. (hybridized through open pollination).*	15/8	85/30	45% Fair	Good								Possible structural stability issue, related to the fact that tree stems are growing through steel chain link fencing material, which may be compromising strength of the stems.	
32	X	5	23.6	0.0	0.0	X	Monterey pine	*Pinus radiata*	40/32	30/20	25% Poor	Poor			X					Vehicle strike 0 feet to 6 feet elevation, on west side of trunk, comprising 50% to 60% of circumerence, which in itself is sometimes grounds for tree removal. North side of canopy has been pruned out. Pine pitch canker fungus infection noted, causing decline of canopy live twig and needle density.	MONITOR TREE FOR CONTINUED DECLINE. CONSIDER TREE TO BE STRUCTURALLY COMPROMISED TO SOME DEGREE, DUE TO VEHICLE STRIKE, PINE PITCH CANKER INFECTION, ETC. RISK RATINGS NOT FORMALLY DETERMINED.
33	X	5	38.2	0.0	0.0	X	Monterey pine	*Pinus radiata*	50/45	45/45	45% Fair	Poor to Mod				Tree has been limbed up along the street side, to remove all scaffold limbs.				Three codominant mainstems fork at 4 feet to 8 feet above grade. Tree exhibits symptoms consistent with pine pitch canker fungus infection, which is likely causing decline in canopy live twig and needle density.	
34	X	5	Est. 9	0.0	0.0		European olive (fruit-bearing verified)	*Olea europaea*	21/26	70/45	55% Fair	Good		East.						Mainstem decay symptoms are visible.	
35	X	5	4.0	0.0	0.0		holly oak	*Quercus ilex*	18/6	25/40	30% Poor	Poor								Severe sooty mold infection on foliage, which occurs on this species when planted in Sunset Zone 17.	

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36	X	5	9.3	0.0	0.0	X	holly oak	*Quercus ilex*	20/17	40/30	35% Poor	Poor			X				Severe sooty mold infection on foliage, which occurs on this species when planted in Sunset Zone 17. 50% of basal circumference compromised by vehicle strike or other impact.	
37	X	5	17.6	0.0	0.0	X	blackwood acacia	*Acacia melanoxylon*	30/26	30/30	30% Poor	Poor	East.						Bark inclusion type fork at 3.5 feet to 4.5 feet. Partial canopy dieback noted.	
38	X	5	Thirteen (13) stems 1" to 4" dia each.	0.0	0.0		holly oak	*Quercus ilex*	18/10	15/30	20% Very Poor	Very Poor	East.	Sweep form east.			Likely presence of GR or CR causing sweep form.	X	Severe sooty mold infection (black material on foliage).	
39	X	5	8.9	0.0	0.0	X	holly oak	*Quercus ilex*	20/16	10/10	10% Very Poor	Very Poor						X	6" dia mainstem splitout at 5 feet. Severe defoliation likely related to fruit tree leaf roller (see column left of this NOTES column).	
40	X	5	4.0	4.0	3.0		holly oak	*Quercus ilex*	12/12	5/5	5% DEAD	Very Poor	East.					X	Severe defoliation due to fruit tree leaf rollers. Trees in 5% condition are considered "DEAD" per latest iteration of Guide for Plant Appraisal. Sooty mold severe.	
41	X	5	9.8	0.0	0.0	X	holly oak	*Quercus ilex*	20/20	15/15	15% Very Poor	Very Poor	East.	Bow form east.				X	Severe twig desiccation and defoliation due to fruit tree leaf rollers. Sooty mold fungus infection.	
42	X	5	9.0	8.0	8.0	X	holly oak	*Quercus ilex*	19/21	25/35	30% Poor	Poor	East.					X	Canopy lopsided eastward in direction of prevailing wind. Severely defoliated, at least temporarily, due to fruit tree leaf rollers.	
43	X	5	14.7	0.0	0.0	X	holly oak	*Quercus ilex*	26/30	55/60	57% Fair	Mod	East.			Tree has been limbed up to clear entrance road airspace.		X	Minor defoliation from fruit tree leaf rollers. Lopsided due to eastward prevailing winds. Mainstems fork at 6 to 7 feet elevation (wide).	

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44	X	5	12.5	11.3	0.0	X	European olive (fruit-bearing verified)	*Olea europaea*	28/40	70/35	50% Fair	Mod							Tree exhibits heavy endweight, causing canopy drooping and branch loss due to the weight of the east side of canopy.	ELEVATED RISK SPECIMEN, IN TERMS OF POTENTIAL FOR STEM FAILURE OVER ROADWAY AND IMPACT WITH PEDS/CARS/DRIVERS
45	X	5	4.0	4.0	3.0		fire thorn	*Pyracantha sp.*	12/18	60/40	50% Fair	Mod							Some arborists may not consider this woody plant species to be a "tree". Horticulture texts and city tree ordinances note various definitions of "tree" that require a plant to achieve a minimum height of between 10 feet and 15 feet.	
46	X	5	3.0	3.0	0.0		fire thorn	*Pyracantha sp.*	10/16	50/40	45% Fair	Mod				X			Severely pruned back in past.	
47	X	5	8.5	6.2	0.0	X	holly oak	*Quercus ilex*	18/18	80/45	63% Good	Good	East.	East (downhill)					Bark inclusion type fork at 3 to 4 feet above grade. Lopsided in direction prevailing wind.	
48	X	5	4.4	0.0	0.0		red maple cultivar	*Acer rubrum (Cult.)*	18/16	50/30	36% Poor	Mod	East.	East.		(Vandalized)			Vertical mainstem is dead. Remaining stems are off vertical in eastward direction in line with prevailing wind azimuth. Tree has been vandalized by pedestrians, with two branches broken out at 5 feet elevation.	
49	X	5	9.2	7.9	6.8	X	holly oak	*Quercus ilex*	20/28	58/45	50% Fair	Mod	East.	East.			Possible BRC. RC is not visible.		Codominant mainstems with wide attachment angle at 3 feet. Flux noted at 0" to 6" above grade on trunk, possibly due to buried root crown. Homeless persons may be living in this vicinity (note junk piled up around the trees along this hillslope corridor of Tanforan site).	
50	X	5	8.0	7	6.0	X	holly oak	*Quercus ilex*	23/26	65/55	60% Fair	Good	North east.					X	Moderate chewing damage by fruit tree leaf rollers.	

TREE DATA / TANFORAN MALL / SAN BRUNO, CALIFORNIA
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51	X	5	6.5	0.0	0.0		red maple cultivar	*Acer rubrum* (Cult.)	25/20	65/60	62% Good	Good	East.						Low value tree species, dependent on supplemental irrigation to thrive in the Bay Area.	
52	X	5	1.0	1.0	1.0		blackwood acacia	*Acacia melanoxylon*	6/4	85/85	85% Good	Good							Volunteer tree arising from seed dispersed by a nearby mother tree.	
53	X	5	11.4	10.7	0.0	X	holly oak	*Quercus ilex*	28/26	80/70	75% Good	Good	East.					Minimal	Lopsided in direction of prevailing winds. Minimal evidence of fruit tree leaf roller chewing, unlike the other holly oaks which were damaged by extensive feeding.	
54	X	5	14.1	0.0	0.0	X	blackwood acacia	*Acacia melanoxylon*	33/20	75/65	70% Good	Good	East.						Lopsided in direction of prevailing winds.	
55	X	5	10.4	0.0	0.0	X	blackwood acacia	*Acacia melanoxylon*	37/17	75/50	57% Fair	Good							Narrow canopy.	
56	X	5	23.8	0.0	0.0	X	blackwood acacia	*Acacia melanoxylon*	35/26	75/55	60% Fair	Good					X		Extended "lanky" form canopy, due to canopy crown raising pruning of the lower elevation stems, which is forcing new growth to occur only out at the ends of the canopy (not ideal).	
57	X	5	4.0	2.0	2.0		holly oak	*Quercus ilex*	10/10	20/15	17% Very Poor	Very Poor	East.	East.				X	Stunted in shade of tree #56.	
58	X	5	<1	<1	<1		blackwood acacia	*Acacia melanoxylon*	8/9	65/65	65% Good	Mod							Volunteer tree arising from seed dispersed by a nearby mother tree.	
59	X	5	2.0	2.0	1.0		blackwood acacia	*Acacia melanoxylon*	13/14	30/30	30% Poor	Poor							Volunteer tree arising from seed dispersed by a nearby mother tree. Tree in declining condition, with visible dieback of canopy stems.	

Tree Tag #	Planned Tree Removal (TBD)	Tree Map Sheet Number Identifier (10 Sheets Total)	Trunk 1 (in.) at 4.5 feet above grade	Trunk 2 (in.) at 4.5 feet above grade	Trunk 3 (in.) at 4.5 feet above grade	Protected Status as "Heritage Tree" in San Bruno, CA (6"DBH *Quercus sp*., Monterey pine, coast redwood, CA Bay laurel, and CA buckeye. 10"DBH all other 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 Extension & Live Foliar Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Vehicle and/or Machinery Damages (Physical Impact)	Severe Pruning by Tanforan Mall Contractors	Buried Root Crown (BRC), Girdling Roots (GR), or Circling Roots (CR)	"Fruit Tree Leaf Roller" caterpillar chewing damage in Feb 2024 noted as significant or severe (holly oak specimens)	NOTES	PROTECTION AND MAINTENANCE RECOMMENDATIONS (IF TREE TO BE RETAINED AND PROTECTED IN PLACE)
60	X	5	1.5	1.5	1.5		unknown tree species	*(Genus, species)*	12/6	40/40	40% Poor	Poor							Tree may or may not be a volunteer specimen arising from seed dispersed by birds defecating.	
61	X	5	3.0	2.0	1.0		unknown tree species	*(Genus, species)*	20/15	75/60	66% Good	Good							Tree may or may not be a volunteer specimen arising from seed dispersed by birds defecating.	
62	X	5	4.9	0.0	0.0		red maple cultivar	*Acer rubrum* (Cult.)	19/16	30/30	30% Poor	Poor	East.						Measured at 4.0 feet elevation. Severe canopy dieback due to soil moisture deficit.	
63	X	5	4.5	0.0	0.0		red maple cultivar	*Acer rubrum* (Cult.)	18/18	40/50	45% Fair	Poor to Mod							Apical meristem dead 8 ft to 18 ft above grade, likely due to soil moisture deficit (drought stress due to lack of proper irrigation).	
64	X	5	5.4	0.0	0.0		red maple cultivar	*Acer rubrum* (Cult.)	22/20	50/60	54% Fair	Mod							Severe sunscald damage on west side of mainstem between 0 ft and 2.5 ft elevation.	
65	X	4	5.3	0.0	0.0		Japanese flowering cherry cultivar	*Prunus serrulata* (Cult.)	10/10	20/10	15% Very Poor	Very Poor	East.			X			Tree has been severely pruned back on west side, resulting in east side lopsidedness (canopy may have died back, resulting in deadwood removal pruning).	
66	X	4	6.0	0.0	0.0		Japanese flowering cherry cultivar	*Prunus serrulata* (Cult.)	17/17	60/60	60% Fair	Mod	North.							
67	X	4	5.7	0.0	0.0		Japanese flowering cherry cultivar	*Prunus serrulata* (Cult.)	16/17	75/65	68% Good	Good								
68	X	4	6.1	0.0	0.0		Japanese flowering cherry cultivar	*Prunus serrulata* (Cult.)	16/17	75/65	70% Good	Good								
69	X	4	7.3	0.0	0.0		Japanese flowering cherry cultivar	*Prunus serrulata* (Cult.)	16/18	75/65	70% Good	Good								

Tree Tag #	Planned Tree Removal (TBD)	Tree Map Sheet Number Identifier (10 Sheets Total)	Trunk 1 (in.) at 4.5 feet above grade	Trunk 2 (in.) at 4.5 feet above grade	Trunk 3 (in.) at 4.5 feet above grade	Protected Status as "Heritage Tree" in San Bruno, CA (6"DBH *Quercus sp*., Monterey pine, coast redwood, CA Bay laurel, and CA buckeye. 10"DBH all other 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 Extension & Live Foliar Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Vehicle and/or Machinery Damages (Physical Impact)	Severe Pruning by Tanforan Mall Contractors	Buried Root Crown (BRC), Girdling Roots (GR), or Circling Roots (CR)	"Fruit Tree Leaf Roller" caterpillar chewing damage in Feb 2024 noted as significant or severe (holly oak specimens)	NOTES	PROTECTION AND MAINTENANCE RECOMMENDATIONS (IF TREE TO BE RETAINED AND PROTECTED IN PLACE)
70	X	4	4.7	0.0	0.0		Japanese flowering cherry cultivar	*Prunus serrulata* (Cult.)	5/1	0/0	0% DEAD	--------							Appears to have been vandalized (?) by a mall patron, with only a stump remaining.	
71	X	4	6.1	0.0	0.0		Japanese flowering cherry cultivar	*Prunus serrulata* (Cult.)	6/1	0/0	0% DEAD	--------							Appears to have been vandalized (?) by a mall patron, with only a stump remaining.	
72	X	4	4.8	0.0	0.0		Japanese flowering cherry cultivar	*Prunus serrulata* (Cult.)	12/7	50/30	40% Poor	Mod							Extensive wood tissue decay noted at root crown (at grade) 4" x 7" dimension, possibly due to irrigation water contacting trunk on a frequent basis, and/or other causes. Canopy stem decay also noted as a significant issue.	
73	X	4	6.3	0.0	0.0		Japanese flowering cherry cultivar	*Prunus serrulata* (Cult.)	15/16	60/50	57% Fair	Mod								
74	X	4	5.1	0.0	0.0		Japanese flowering cherry cultivar	*Prunus serrulata* (Cult.)	19/19	80/80	80% Good	Good								
75	X	3	15.5	0.0	0.0	X	blackwood acacia	*Acacia melanoxylon*	46/20	80/55	60% Fair	Good	East.	East.					Tree at east side of auto repair building, forced to grow off-vertical around the exterior of building to access sunlight.	
76	X	3	10.0	0.0	0.0	X	blackwood acacia	*Acacia melanoxylon*	42/19	80/50	59% Fair	Good	East.	East.					Tree at east side of auto repair building, forced to grow off-vertical around the exterior of building to access sunlight.	
77	X	3	5.5	0.0	0.0		unknown tree species	*(Genus, species)*	12/10	0/0	0% DEAD	--------								
78	X	8	23.7	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	55/30	70/55	60% Fair	Good					Root deformation.		Narrow planter strip causing deformation of, and/or restriction of lateral root extension growth. Roots do still extend into the parking lot asphaltic areas outside planter curbs by plunging under the curbs themselves.	

Tree Tag #	Planned Tree Removal (TBD)	Tree Map Sheet Number Identifier (10 Sheets Total)	Trunk 1 (in.) at 4.5 feet above grade	Trunk 2 (in.) at 4.5 feet above grade	Trunk 3 (in.) at 4.5 feet above grade	Protected Status as "Heritage Tree" in San Bruno, CA (6"DBH *Quercus sp*., Monterey pine, coast redwood, CA Bay laurel, and CA buckeye. 10"DBH all other 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 Extension & Live Foliar Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Vehicle and/or Machinery Damages (Physical Impact)	Severe Pruning by Tanforan Mall Contractors	Buried Root Crown (BRC), Girdling Roots (GR), or Circling Roots (CR)	"Fruit Tree Leaf Roller" caterpillar chewing damage in Feb 2024 noted as significant or severe (holly oak specimens)	NOTES	PROTECTION AND MAINTENANCE RECOMMENDATIONS (IF TREE TO BE RETAINED AND PROTECTED IN PLACE)
79	X	8	18.2	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	50/30	70/55	60% Fair	Good	East.				Root deformation.		Narrow planter strip causing deformation of, and/or restriction of lateral root extension growth. Roots do still extend into the parking lot asphaltic areas outside planter curbs by plunging under the curbs themselves.	
80	X	8	21.0	0.0	0.0	X	Myoporum tree	*Myoporum laetum*	17/26	10/10	10% Very Poor	Very Poor				X			Extensive mainstem decay 0 to 6 feet. Tree has been severely pruned back to remove deadwood. Myoporum thrips causing severe foliar puckering and other related damage to canopy, resulting in overall tree decline and premature death (tree almost dead). This new pest susceptibility issue has made the myoporum tree species basically worthless in California landscapes.	
81	X	8	6.6	0.0	0.0		Myoporum tree	*Myoporum laetum*	12/11	20/15	18% Very Poor	Very Poor				X	GR		Severe thrips damage. Girdling roots. Asymmetrical root system. Severely pruned back due to dieback. See tree #80 NOTES for further information on issues with myoporum species.	
82	X	8	7.3	0.0	0.0		Myoporum tree	*Myoporum laetum*	17/20	30/20	25% Poor	Poor					GR/CR		Thrips damage. See tree #80 NOTES for detailed information on this issue affecting myoporum trees.	
83	X	8	6.5	0.0	0.0		Myoporum tree	*Myoporum laetum*	12/18	30/20	25% Poor	Poor	North.			X			Asymmetrical root system. Lopsided north due to severe pruning to remove dead material related to thrips damage, or to clear the parking stalls. See tree #80 NOTES for full details of the thrips infestation issue with this tree species.	
84	X	8	5.5	0.0	0.0		Myoporum tree	*Myoporum laetum*	14/15	25/15	20% Very Poor	Poor	North.			X			Asymmetrical buttress roots. Lopsided north due likely to severe pruning to remove dead material related to severe thrips damage, or to clear the parking stalls. See tree #80 NOTES for full details of the thrips infestation issue with this tree species.	

Tree Tag #	Planned Tree Removal (TBD)	Tree Map Sheet Number Identifier (10 Sheets Total)	Trunk 1 (in.) at 4.5 feet above grade	Trunk 2 (in.) at 4.5 feet above grade	Trunk 3 (in.) at 4.5 feet above grade	Protected Status as "Heritage Tree" in San Bruno, CA (6"DBH *Quercus sp*., Monterey pine, coast redwood, CA Bay laurel, and CA buckeye. 10"DBH all other 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 Extension & Live Foliar Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Vehicle and/or Machinery Damages (Physical Impact)	Severe Pruning by Tanforan Mall Contractors	Buried Root Crown (BRC), Girdling Roots (GR), or Circling Roots (CR)	"Fruit Tree Leaf Roller" caterpillar chewing damage in Feb 2024 noted as significant or severe (holly oak specimens)	NOTES	PROTECTION AND MAINTENANCE RECOMMENDATIONS (IF TREE TO BE RETAINED AND PROTECTED IN PLACE)
85	X	8	7.7	0.0	0.0		Myoporum tree	*Myoporum laetum*	13/18	20/15	17% Very Poor	Very Poor				X			String trimmer or mower damage to the basal mainstem bark was noted. Severe pruning was performed likely to remove dead material related to severe thrips damage, or clear parking stalls. See tree #80 NOTES for full details of the thrips infestation issue with this tree species.	
86	X	8	8.5	0.0	0.0		Myoporum tree	*Myoporum laetum*	17/18	20/25	23% Poor	Very Poor				X			Severe thrips damage. See tree #80 NOTES for further information on issues with myoporum species.	
87	X	8	25.8	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	50/32	75/45	53% Fair	Good							Narrow planter strip causing deformation of, and/or restriction of lateral root extension growth. Roots do still extend into the parking lot asphaltic areas outside planter curbs by plunging under the curbs themselves. Buttress roots are engulfing the curbwork, which means they may be somewhat destabilized from deformation around the curbs.	
88	X	8	11.3	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	35/17	50/35	39% Poor	Mod					Root deformation.		Apical meristem is dead. Very narrow planter area dimensions for a tree of this size. Narrow planter strip causing deformation of, and/or restriction of lateral root extension growth. Roots likely extend into the parking lot asphaltic areas outside planter curbs by plunging under the curbs themselves.	
89	X	8	7.5	0.0	0.0		Lombardy poplar	*Populus nigra* 'Italica'	29/12	30/15	20% Very Poor	Poor					Root deformation.		Entire west side of mainstem is decayed, due to sunscald or soil moisture deficit and/or other issues. Narrow planter strip causing deformation of, and/or restriction of lateral root extension growth. Roots likely extend into the parking lot asphaltic areas outside planter curbs by plunging under the curbs themselves.	
90	X	8	5.8	0.0	0.0		Lombardy poplar	*Populus nigra* 'Italica'	23/10	30/20	25% Poor	Poor							(All same conditions as noted above in NOTES cell for tree #89).	

Tree Tag #	Planned Tree Removal (TBD)	Tree Map Sheet Number Identifier (10 Sheets Total)	Trunk 1 (in.) at 4.5 feet above grade	Trunk 2 (in.) at 4.5 feet above grade	Trunk 3 (in.) at 4.5 feet above grade	Protected Status as "Heritage Tree" in San Bruno, CA (6"DBH *Quercus sp*., Monterey pine, coast redwood, CA Bay laurel, and CA buckeye. 10"DBH all other 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 Extension & Live Foliar Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Vehicle and/or Machinery Damages (Physical Impact)	Severe Pruning by Tanforan Mall Contractors	Buried Root Crown (BRC), Girdling Roots (GR), or Circling Roots (CR)	"Fruit Tree Leaf Roller" caterpillar chewing damage in Feb 2024 noted as significant or severe (holly oak specimens)	NOTES	PROTECTION AND MAINTENANCE RECOMMENDATIONS (IF TREE TO BE RETAINED AND PROTECTED IN PLACE)
91	X	8	17.3	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	50/32	70/50	58% Fair	Good					Root deformation.		Sidewalk slabs are displaced between 1 inch and 3 inches vertically, due to root expansion and extension from tree, creating a "trip hazard" that exists today. Roots restricted in planter, but are likely extended far beyond confines of the curbwork. Anchor (buttress) roots are engulging the sidewalk slabs, likely downgrading the structural stability of tree due to root deformation/restriction. Tree is far to large in size in terms of root system, mainstem, etc. for the width of this narrow planter area.	
92	X	8	10.7	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	23/19	40/40	40% Poor	Mod	East.				Root deformation.		Very narrow planter dimension. Planter curbs are being displaced laterally by root expansion and extension pressure. Tree is far to large in size in terms of root system, mainstem, etc. for the width of this narrow planter area. Root system considered deformed or restricted, resulting in structural stability downgrade reflected in the 'structure' data numeric rating to the left on this Excel data row.	
93	X	9	19.1	0.0	0.0	X	Lombardy poplar	*Populus nigra 'Italica'*	47/20	75/50	56% Fair	Good		East.					Roots damaged on grade. Roots extended far beyond the confines of narrow planter area and curbwork.	
94	X	9	13.3	0.0	0.0	X	Lombardy poplar	*Populus nigra 'Italica'*	45/17	65/55	59% Fair	Good		East.					Roots extended far beyond the confines of narrow planter area and curbwork. Root extension and expansion is causing displacement of the curbwork at edges of the narrow planter area.	
95	X	9	10.5	0.0	0.0	X	Lombardy poplar	*Populus nigra 'Italica'*	40/17	65/55	60% Fair	Good	East.						Roots extended far beyond the confines of narrow planter area and curbwork.	
96	X	9	18.5	0.0	0.0	X	Lombardy poplar	*Populus nigra 'Italica'*	43/25	75/55	65% Good	Good					Roots deflected.		Roots deflected along planter curbwork, causing severe lateral displacement of and cracking of the concrete curbs, with curbs displaced at least 2 to 4 inches laterally. Root deformation is 90 degrees (i.e. an "L" bend) in at least one area, due to narrow planter area confines and curbwork. Root 90 degree deformation may or may not be reducing tree structural stability as a result of root plate asymmetry.	
97	X	9	6.5	0.0	0.0	X	coast live oak	*Quercus agrifolia*	17/13	60/35	44% Fair	Mod to Good	East.		X				Located in relatively very small dimension planter area. Tree was struck by truck, likely more than once, resulting in physical damage to stems on east side of canopy.	

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98	X	9	12.2	0.0	0.0	X	coast live oak	*Quercus agrifolia*	28/24	75/50	60% Fair	Good	West.			East side sheared up to at least 18 feet elevation, resulting in canopy lopsidedness to West.			Located in relatively very small dimension planter area. Tree exhibits codominant mainstems forking at 11 feet. For some reason, this tree was sheared up on the east side of canopy to achieve vehicle clearance far above the standard 14.5 vertical feet of airspace clearance required by law. This tree was sheared up to at least 18 or 19 feet elevation above grade.	
99	X	9	6.4	0.0	0.0	X	coast live oak	*Quercus agrifolia*	22/15	20/30	25% Poor	Very Poor	East.						Witch's broom fungal condition throughout canopy, negatively affecting tree vigor (health) in terms of twig and foliar growth. This is actually quite commonly seen on coast live oak specimens growing in close proximity to SF Bay, especially when the tree is in a shaded position or exposed to high velocity winds and fog.	
100	X	9	5.0	0.0	0.0		Myoporum tree	*Myoporum laetum*	12/13	40/30	35% Poor	Poor				Possibly top pruned.			Thrips damage to foliage noted as severe, with puckering of the foliage due to insect feeding (sucking). This species highly susceptible to myoporum thrips damage in recent years in Bay Area, which results in premature canopy foliar decline, twig decline, and death of the trees in the landscape. There is no low toxicity cure or treatment for this pest condition, and myoporum trees are typically removed and replaced with different species to resolve the problem.	
101	X	9	5.2	0.0	0.0		Myoporum tree	*Myoporum laetum*	14/13	40/30	35% Poor	Poor							(All same "NOTES" as indicated in this column above for tree #100).	
102	X	9	4.9	0.0	0.0		Myoporum tree	*Myoporum laetum*	14/13	40/40	40% Poor	Poor							(All same "NOTES" as indicated in this column above for tree #100).	
103	X	9	7.8	0.0	0.0		Myoporum tree	*Myoporum laetum*	18/16	50/45	49% Fair	Mod							(All same "NOTES" as indicated in this column above for tree #100).	
104	X	9	9.3	0.0	0.0		London plane tree cultivar	*Platanus x hispanica* (Cult.)	32/28	80/60	70% Good	Good	East.	East.					Good trunk taper (TT) development. As noted elsewhere in this data table, the only highly valued London plane tree cultivar that effectively resists powdery mildew fungus and anthracnose fungus infections in the Bay Area is 'Columbia', but even 'Columbia' plane tree foliage can be severely affected by these fungal pathogens during some seasons. The author cannot verify whether this out-of-leaf tree specimen is 'Columbia' or another named plane tree cultivar.	

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105	X	9	7.1	0.0	0.0		London plane tree cultivar	*Platanus x hispanica* (Cult.)	28/26	70/60	65% Good	Good	East.	East.					(All same "NOTES" as indicated in this column above for tree #104).	
106	X	9	7.0	0.0	0.0		London plane tree cultivar	*Platanus x hispanica* (Cult.)	22/19	65/55	60% Fair	Good	East.	East.					(All same "NOTES" as indicated in this column above for tree #104).	
107	X	9	6.7	0.0	0.0		London plane tree cultivar	*Platanus x hispanica* (Cult.)	22/20	65/50	56% Fair	Good		East.					(All same "NOTES" as indicated in this column above for tree #104). Sparse canopy architecture, with subnormal stem extension lengths.	
108	X	9	7.2	0.0	0.0		London plane tree cultivar	*Platanus x hispanica* (Cult.)	28/28	75/60	67% Good	Good	East.	Bow form lean east.					(All same "NOTES" as indicated in this column above for tree #104).	
109	X	9	6.2	0.0	0.0		London plane tree cultivar	*Platanus x hispanica* (Cult.)	24/26	65/55	59% Fair	Good		East.		X			(All same "NOTES" as indicated in this column above for tree #104). Apical (central leader stem) has been pruned out at 11 feet, assumedly due to death of the stem (?). Not verified.	
110	X	9	7.8	0.0	0.0		London plane tree cultivar	*Platanus x hispanica* (Cult.)	28/32	75/60	68% Good	Good	East.	Bow form lean east.					(All same "NOTES" as indicated in this column above for tree #104).	
111	X	9	8.7	0.0	0.0		London plane tree cultivar	*Platanus x hispanica* (Cult.)	30/25	75/62	69% Good	Good	East.	Bow form lean east.					(All same "NOTES" as indicated in this column above for tree #104).	
112	X	9	<1	<1	<1		American arborvitae 'Smargd' cultivar	*Thuja occidentalis* 'Smargd'	6/1	5/5	5% DEAD due to lack of irrigation.	------							This cultivar of American arborvitae achieves only a very low height. Some persons may not consider this woody plant to be a "tree", but rather a "shrub" due to its ultimate height of only 10 to 12 feet.	
113	X	9	0.0	0.0	0.0		American arborvitae 'Smargd' cultivar	*Thuja occidentalis* 'Smargd'	6/1	5/5	5% DEAD due to lack of irrigation.	------							This cultivar of American arborvitae achieves only a very low height. Some persons may not consider this woody plant to be a "tree", but rather a "shrub" due to its ultimate height of only 10 to 12 feet.	
114	X	9	0.0	0.0	0.0		American arborvitae 'Smargd' cultivar	*Thuja occidentalis* 'Smargd'	6/1	5/5	5% DEAD due to lack of irrigation.	------							This cultivar of American arborvitae achieves only a very low height. Some persons may not consider this woody plant to be a "tree", but rather a "shrub" due to its ultimate height of only 10 to 12 feet.	

TREE DATA / TANFORAN MALL / SAN BRUNO, CALIFORNIA
Field Survey Date: 2/1/2024 to 2/15/2024
Excel Spreadsheet Preparation: 2/15/2024

Tree Tag #	Planned Tree Removal (TBD)	Tree Map Sheet Number Identifier (10 Sheets Total)	Trunk 1 (in.) at 4.5 feet above grade	Trunk 2 (in.) at 4.5 feet above grade	Trunk 3 (in.) at 4.5 feet above grade	Protected Status as "Heritage Tree" in San Bruno, CA (6"DBH *Quercus sp*., Monterey pine, coast redwood, CA Bay laurel, and CA buckeye. 10"DBH all other 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 Extension & Live Foliar Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Vehicle and/or Machinery Damages (Physical Impact)	Severe Pruning by Tanforan Mall Contractors	Buried Root Crown (BRC), Girdling Roots (GR), or Circling Roots (CR)	"Fruit Tree Leaf Roller" caterpillar chewing damage in Feb 2024 noted as significant or severe (holly oak specimens)	NOTES	PROTECTION AND MAINTENANCE RECOMMENDATIONS (IF TREE TO BE RETAINED AND PROTECTED IN PLACE)
115	X	9	0.0	0.0	0.0		American arborvitae 'Smargd' cultivar	*Thuja occidentalis* 'Smargd'	6/1	5/5	5% DEAD due to lack of irrigation.	------							This cultivar of American arborvitae achieves only a very low height. Some persons may not consider this woody plant to be a "tree", but rather a "shrub" due to its ultimate height of only 10 to 12 feet.	
116	X	9	0.0	0.0	0.0		American arborvitae 'Smargd' cultivar	*Thuja occidentalis* 'Smargd'	6/1	5/5	5% DEAD due to lack of irrigation.	------							This cultivar of American arborvitae achieves only a very low height. Some persons may not consider this woody plant to be a "tree", but rather a "shrub" due to its ultimate height of only 10 to 12 feet.	
117	X	9	0.0	0.0	0.0		American arborvitae 'Smargd' cultivar	*Thuja occidentalis* 'Smargd'	6/1	5/5	5% DEAD due to lack of irrigation.	------							This cultivar of American arborvitae achieves only a very low height. Some persons may not consider this woody plant to be a "tree", but rather a "shrub" due to its ultimate height of only 10 to 12 feet.	

NOTES

1. The original intent of the author was to include only tree specimens 3.0" diameter and larger in this study, in order to exclude very small trees such as volunteers growing along the property line fence, etc. However, after commencing the field survey on the mall site itself, the author decided to include all trees of all sizes (even with mainstems measuring less than 1.0 inch diameter each) within the formal property line and overhanging the property line, to capture woody plants in the initial tree study without exception. It was felt that this would provide City Staff with a more transparent tree study, fully inclusive of all trees, without respect to size or species. Newly-planted trees measuring some 1.5 inches diameter, with initial planting stake and rubber tie support systems, were thus included in this study.

2. Heights were determined using a Nikon Forestry Pro 550 digital hypsometer. Canopy spread was noted as a total diameter along the widest vector, estimated visually. Tree diameter for trees with a large number of mainstems, and for trees with mainstems inaccessible to the author, were "estimated" visually. Most trees were measured using a forester's D-tape which converts actual circumference to averaged diameter in inches and tenths of inches, which is the industry pro standard tool for tree measurement in the USA for both foresters and arborists.

3. Tree risk assessment rating determination per ISA-TRA protocols was NOT included as part of this initial tree study by WLCA. Therefore, study trees were not formally rated for risk. However, in a few instances, WLCA did note a generalized risk rating for a few tree specimens deemed to be of "elevated risk", for the purposes of identifying situations at Tanforan Mall where trees in the landscape represent a known risk of tree or tree part failure and impact with pedestrians, drivers, etc. within 12 months of the date of writing. It is the author's assumption that "all trees" are to be removed from the site as part of the site plan demolition and redevelopment project. But given the number of months or years that my accrue before trees are actually removed from the landscape, between (Feb 2024) and demolition, WLCA opted to identify a few of the most immediate need (elevated tree risk) situations, so that Tanforan Mall managers can respond with tree maintenance and/or tree removal as appropriate, to maintain public safety.

TREE DATA / LIST OF HERITAGE TREES ONLY / LISTED BY TREE TAG NUMBER IN ASCENDING ORDER / TANFORAN MALL / SAN BRUNO, CALIFORNIA
Field Survey Date: 2/1/2024 to 2/15/2024
Excel Spreadsheet Preparation: 2/15/2024

Tree Tag #	Planned Tree Removal (TBD)	Tree Map Sheet Number Identifier (10 Sheets Total)	Trunk 1 (in.) at 4.5 feet above grade	Trunk 2 (in.) at 4.5 feet above grade	Trunk 3 (in.) at 4.5 feet above grade	Protected Status as "Heritage Tree" in San Bruno, CA (6"DBH *Quercus sp.*, Monterey pine, coast redwood, CA Bay laurel, and CA buckeye. 10"DBH all other 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 Extension & Live Foliar Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Vehicle and/or Machinery Damages (Physical Impact)	Severe Pruning by Tanforan Mall Contractors	Buried Root Crown (BRC), Girdling Roots (GR), or Circling Roots (CR)	"Fruit Tree Leaf Roller" caterpillar chewing damage in Feb 2024 noted as significant or severe (holly oak specimens)	NOTES	PROTECTION AND MAINTENANCE RECOMMENDATIONS (IF TREE TO BE RETAINED AND PROTECTED IN PLACE)
7	X	10	10.7	0.0	0.0	X	London plane tree cultivar	*Platanus x hispanica*	33/38	75/65	70% Good	Good	East.	Bow form east.						Only the "Columbia" cultivar of this tree species is considered desireable as of 2024.	
8	X	10	17.3	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	40/19	75/55	65% Good	Good								This species exhibits genetically controlled upright angles of branch attachment that are not ideal. Trees installed in planters with plastic root barriers impeding root extension.	
9	X	10	13.7	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	33/12	65/50	58% Fair	Good		Southwest.						This species exhibits genetically controlled upright angles of branch attachment that are not ideal. Trees installed in planters with plastic root barriers impeding root extension.	
10	X	10	15.7	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	36/19	75/55	63% Good	Good	East.	East.						This species exhibits genetically controlled upright angles of branch attachment that are not ideal. Trees installed in planters with plastic root barriers impeding root extension.	
11	X	10	12.0	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	40/17	70/50	52% Fair	Good	East.	East.						This species exhibits genetically controlled upright angles of branch attachment that are not ideal. Trees installed in planters with plastic root barriers impeding root extension.	
12	X	10	19.0	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	45/18	75/55	65% Good	Good								This species exhibits genetically controlled upright angles of branch attachment that are not ideal. Trees installed in planters with plastic root barriers impeding root extension.	
13	X	10	12.9	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	35/21	75/55	60% Fair	Good				South side of canopy removed to clear existing bldg.				This species exhibits genetically controlled upright angles of branch attachment that are not ideal. Trees installed in planters with plastic root barriers impeding root extension.	
14	X	10	22.2	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	44/28	80/55	65% Good	Good			Machinery damaged the lower trunk, 2 feet to 7 feet above grade on south side of trunk.					This species exhibits genetically controlled upright angles of branch attachment that are not ideal. Trees installed in planters with plastic root barriers impeding root extension.	
15	X	10	16.7	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	45/25	80/55	68% Good	Good		East.		South side of canopy removed to clear existing bldg.				This species exhibits genetically controlled upright angles of branch attachment that are not ideal. Trees installed in planters with plastic root barriers impeding root extension.	

Tree Tag #	Planned Tree Removal (TBD)	Tree Map Sheet Number Identifier (10 Sheets Total)	Trunk 1 (in.) at 4.5 feet above grade	Trunk 2 (in.) at 4.5 feet above grade	Trunk 3 (in.) at 4.5 feet above grade	Protected Status as "Heritage Tree" in San Bruno, CA (6"DBH *Quercus sp.*, Monterey pine, coast redwood, CA Bay laurel, and CA buckeye. 10"DBH all other 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 Extension & Live Foliar Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Vehicle and/or Machinery Damages (Physical Impact)	Severe Pruning by Tanforan Mall Contractors	Buried Root Crown (BRC), Girdling Roots (GR), or Circling Roots (CR)	"Fruit Tree Leaf Roller" caterpillar chewing damage in Feb 2024 noted as significant or severe (holly oak specimens)	NOTES	PROTECTION AND MAINTENANCE RECOMMENDATIONS (IF TREE TO BE RETAINED AND PROTECTED IN PLACE)
16	X	6	22.7	0.0	0.0	X	Italian stone pine	*Pinus pinea*	25/35	90/50	75% Good	Good			Lower elevation stems have been damaged by vehicles passing along road.				The Italian stone pine roots are restricted somewhat in their growth extension, due to narrow dimension planter areas.	
17	X	6	17.1	0.0	0.0	X	Italian stone pine	*Pinus pinea*	22/26	80/60	70% Good	Good		Northeast.					The Italian stone pine roots are restricted somewhat in their growth extension, due to narrow dimension planter areas.	
18	X	6	15.9	0.0	0.0	X	Italian stone pine	*Pinus pinea*	22/26	80/60	70% Good (all same as tree #17).	Good					Possible GR or CR situation.		The Italian stone pine roots are restricted somewhat in their growth extension, due to narrow dimension planter areas.	
19	X	6	6.3	0.0	0.0	X	holly oak	*Quercus ilex*	15/17	75/60	66% Good	Good							Severe sooty mold infection on foliage, which occurs on this species when planted in Sunset Zone 17.	
20	X	6	12.0	0.0	0.0	X	coast live oak	*Quercus agrifolia*	25/35	80/30	45% Fair	Good		Severe lean to northeast, likely associated with girdling roots or circling roots remaining from nursery rootstock.			Possible GR or CR situation.		Tree rights to vertical at 7 feet above grade, after initially leaning severely off-vertical toward the northeast.	
22	X	6	7.6	0.0	0.0	X	coast live oak	*Quercus agrifolia*	19/20	25/25	25% Poor	Poor							Roots restricted in terms of extension growth in narrow planter area.	
23	X	6	12.9	0.0	0.0	X	silk oak	*Grevillea robusta*	45/26	80/35	44% Fair	Good				X			Tree has either been top pruned or the mainstem simply broke out during a storm, at 25 feet above grade.	
31	X	5	Est. nine stems 1" to 9" dia each	0.0	0.0	X	Appears to be a native oak hybrid (CALTRANS tree growing into our property).	*Quercus sp. (hybridized through open pollination).*	15/8	85/30	45% Fair	Good							Possible structural stability issue, related to the fact that tree stems are growing through steel chain link fencing material, which may be compromising strength of the stems.	

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32	X	5	23.6	0.0	0.0	X	Monterey pine	*Pinus radiata*	40/32	30/20	25% Poor	Poor			X				Vehicle strike 0 feet to 6 feet elevation, on west side of trunk, comprising 50% to 60% of circumerence, which in itself is sometimes grounds for tree removal. North side of canopy has been pruned out. Pine pitch canker fungus infection noted, causing decline of canopy live twig and needle density.	MONITOR TREE FOR CONTINUED DECLINE. CONSIDER TREE TO BE STRUCTURALLY COMPROMISED TO SOME DEGREE, DUE TO VEHICLE STRIKE, PINE PITCH CANKER INFECTION, ETC. RISK RATINGS NOT FORMALLY DETERMINED.
33	X	5	38.2	0.0	0.0	X	Monterey pine	*Pinus radiata*	50/45	45/45	45% Fair	Poor to Mod				Tree has been limbed up along the street side, to remove all scaffold limbs.			Three codominant mainstems fork at 4 feet to 8 feet above grade. Tree exhibits symptoms consistent with pine pitch canker fungus infection, which is likely causing decline in canopy live twig and needle density.	
36	X	5	9.3	0.0	0.0	X	holly oak	*Quercus ilex*	20/17	40/30	35% Poor	Poor			X				Severe sooty mold infection on foliage, which occurs on this species when planted in Sunset Zone 17. 50% of basal circumference compromised by vehicle strike or other impact.	
37	X	5	17.6	0.0	0.0	X	blackwood acacia	*Acacia melanoxylon*	30/26	30/30	30% Poor	Poor	East.						Bark inclusion type fork at 3.5 feet to 4.5 feet. Partial canopy dieback noted.	
39	X	5	8.9	0.0	0.0	X	holly oak	*Quercus ilex*	20/16	10/10	10% Very Poor	Very Poor						X	6" dia mainstem splitout at 5 feet. Severe defoliation likely related to fruit tree leaf roller (see column left of this NOTES column).	
41	X	5	9.8	0.0	0.0	X	holly oak	*Quercus ilex*	20/20	15/15	15% Very Poor	Very Poor	East.	Bow form east.				X	Severe twig desiccation and defoliation due to fruit tree leaf rollers. Sooty mold fungus infection.	
42	X	5	9.0	8.0	8.0	X	holly oak	*Quercus ilex*	19/21	25/35	30% Poor	Poor	East.					X	Canopy lopsided eastward in direction of prevailing wind. Severely defoliated, at least temporarily, due to fruit tree leaf rollers.	

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43	X	5	14.7	0.0	0.0	X	holly oak	*Quercus ilex*	26/30	55/60	57% Fair	Mod	East.			Tree has been limbed up to clear entrance road airspace.		X	Minor defoliation from fruit tree leaf rollers. Lopsided due to eastward prevailing winds. Mainstems fork at 6 to 7 feet elevation (wide).	
44	X	5	12.5	11.3	0.0	X	European olive (fruit-bearing verified)	*Olea europaea*	28/40	70/35	50% Fair	Mod							Tree exhibits heavy endweight, causing canopy drooping and branch loss due to the weight of the eas side of canopy.	ELEVATED RISK SPECIMEN, IN TERMS OF POTENTIAL FOR STEM FAILURE OVER ROADWAY AND IMPACT WITH PEDS, CARS, DRIVERS
47	X	5	8.5	6.2	0.0	X	holly oak	*Quercus ilex*	18/18	80/45	63% Good	Good	East.	East (downhill)					Bark inclusion type fork at 3 to 4 feet above grade. Lopsided in direction prevailing wind.	
49	X	5	9.2	7.9	6.8	X	holly oak	*Quercus ilex*	20/28	58/45	50% Fair	Mod	East.	East.			Possible BRC. RC is not visible.		Codominant mainstems with wide attachment angle at 3 feet. Flux noted at 0" to 6" above grade on trunk, possibly due to buried root crown. Homeless persons may be living in this vicinity (note junk piled up aroun the trees along this hillslope corridor of Tanforan site)	
50	X	5	8.0	7	6.0	X	holly oak	*Quercus ilex*	23/26	65/55	60% Fair	Good	North east.					X	Moderate chewing damage by fruit tree leaf rollers.	
53	X	5	11.4	10.7	0.0	X	holly oak	*Quercus ilex*	28/26	80/70	75% Good	Good	East.					Minimal	Lopsided in direction of prevailing winds. Minimal evidence of fruit tree leaf roller chewing, unlike the other holly oaks which were damaged by extensive feeding.	
54	X	5	14.1	0.0	0.0	X	blackwood acacia	*Acacia melanoxylon*	33/20	75/65	70% Good	Good	East.						Lopsided in direction of prevailing winds.	

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55	X	5	10.4	0.0	0.0	X	blackwood acacia	*Acacia melanoxylon*	37/17	75/50	57% Fair	Good							Narrow canopy.	
56	X	5	23.8	0.0	0.0	X	blackwood acacia	*Acacia melanoxylon*	35/26	75/55	60% Fair	Good				X			Extended "lanky" form canopy, due to canopy crown raising pruning of the lower elevation stems, which is forcing new growth to occur only out at the ends of the canopy (not ideal).	
75	X	3	15.5	0.0	0.0	X	blackwood acacia	*Acacia melanoxylon*	46/20	80/55	60% Fair	Good	East.	East.					Tree at east side of auto repair building, forced to grow off-vertical around the exterior of building to access sunlight.	
76	X	3	10.0	0.0	0.0	X	blackwood acacia	*Acacia melanoxylon*	42/19	80/50	59% Fair	Good	East.	East.					Tree at east side of auto repair building, forced to grow off-vertical around the exterior of building to access sunlight.	
78	X	8	23.7	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	55/30	70/55	60% Fair	Good						Root deformation.	Narrow planter strip causing deformation of, and/or restriction of lateral root extension growth. Roots do still extend into the parking lot asphaltic areas outside planter curbs by plunging under the curbs themselves	
79	X	8	18.2	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	50/30	70/55	60% Fair	Good	East.					Root deformation.	Narrow planter strip causing deformation of, and/or restriction of lateral root extension growth. Roots do still extend into the parking lot asphaltic areas outside planter curbs by plunging under the curbs themselves	

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80	X	8	21.0	0.0	0.0	X	Myoporum tree	*Myoporum laetum*	17/26	10/10	10% Very Poor	Very Poor				X			Extensive mainstem decay 0 to 6 feet. Tree has been severely pruned back to remove deadwood. Myoporum thrips causing severe foliar puckering and other related damage to canopy, resulting in overall tree decline and premature death (tree almost dead). This new pest susceptibility issue has made the myoporum tree species basically worthless in California landscapes.	
87	X	8	25.8	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	50/32	75/45	53% Fair	Good							Narrow planter strip causing deformation of, and/or restriction of lateral root extension growth. Roots do still extend into the parking lot asphaltic areas outside planter curbs by plunging under the curbs themselves Buttress roots are engulfing the curbwork, which means they may be somewhat destabilized from deformation around the curbs.	
88	X	8	11.3	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	35/17	50/35	39% Poor	Mod					Root deformation.		Apical meristem is dead. Very narrow planter area dimensions for a tree of this size. Narrow planter strip causing deformation of, and/or restriction of lateral root extension growth. Roots likely extend into the parking lot asphaltic areas outside planter curbs by plunging under the curbs themselves.	
91	X	8	17.3	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	50/32	70/50	58% Fair	Good					Root deformation.		Sidewalk slabs are displaced between 1 inch and 3 inches vertically, due to root expansion and extension from tree, creating a "trip hazard" that exists today. Roots restricted in planter, but are likely extended far beyond confines of the curbwork. Anchor (buttress) roots are engulging the sidewalk slabs, likely downgrading the structural stability of tree due to root deformation/restriction. Tree is far to large in size in terms of root system, mainstem, etc. for the width of this narrow planter area.	
92	X	8	10.7	0.0	0.0	X	Lombardy poplar	*Populus nigra* 'Italica'	23/19	40/40	40% Poor	Mod	East.				Root deformation.		Very narrow planter dimension. Planter curbs are being displaced laterally by root expansion and extension pressure. Tree is far to large in size in terms of root system, mainstem, etc. for the width of this narrow planter area. Root system considered deformed or restricted, resulting in structural stability downgrade reflected in the 'structure' data numeric rating to the left on this Excel data row.	

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93	X	9	19.1	0.0	0.0	X	Lombardy poplar	*Populus nigra 'Italica'*	47/20	75/50	56% Fair	Good		East.						Roots damaged on grade. Roots extended far beyond the confines of narrow planter area and curbwork.	
94	X	9	13.3	0.0	0.0	X	Lombardy poplar	*Populus nigra 'Italica'*	45/17	65/55	59% Fair	Good		East.						Roots extended far beyond the confines of narrow planter area and curbwork. Root extension and expansion is causing displacement of the curbwork at edges of the narrow planter area.	
95	X	9	10.5	0.0	0.0	X	Lombardy poplar	*Populus nigra 'Italica'*	40/17	65/55	60% Fair	Good	East.							Roots extended far beyond the confines of narrow planter area and curbwork.	
96	X	9	18.5	0.0	0.0	X	Lombardy poplar	*Populus nigra 'Italica'*	43/25	75/55	65% Good	Good						Roots deflected.		Roots deflected along planter curbwork, causing severe lateral displacement of and cracking of the concrete curbs, with curbs displaced at least 2 to 4 inches laterally. Root deformation is 90 degrees (i.e. an "L" bend) in at least one area, due to narrow planter area confines and curbwork. Root 90 degree deformation may or may not be reducing tree structural stability as a result of root plate asymmetry.	
97	X	9	6.5	0.0	0.0	X	coast live oak	*Quercus agrifolia*	17/13	60/35	44% Fair	Mod to Good	East.		X					Located in relatively very small dimension planter area. Tree was struck by truck, likely more than once, resulting in physical damage to stems on east side of canopy.	
98	X	9	12.2	0.0	0.0	X	coast live oak	*Quercus agrifolia*	28/24	75/50	60% Fair	Good	West.			East side sheared up to at least 18 feet elevation, resulting in canopy lopsidedness to West.				Located in relatively very small dimension planter area. Tree exhibits codominant mainstems forking at 11 feet. For some reason, this tree was sheared up on the east side of canopy to achieve vehicle clearance far above the standard 14.5 vertical feet of airspace clearance required by law. This tree was sheared up to at least 18 or 19 feet elevation above grade.	

TREE DATA / LIST OF HERITAGE TREES ONLY / LISTED BY TREE TAG NUMBER IN ASCENDING ORDER / TANFORAN MALL / SAN BRUNO, CALIFORNIA
Field Survey Date: 2/1/2024 to 2/15/2024
Excel Spreadsheet Preparation: 2/15/2024

Tree Tag #	Planned Tree Removal (TBD)	Tree Map Sheet Number Identifier (10 Sheets Total)	Trunk 1 (in.) at 4.5 feet above grade	Trunk 2 (in.) at 4.5 feet above grade	Trunk 3 (in.) at 4.5 feet above grade	Protected Status as "Heritage Tree" in San Bruno, CA (6"DBH *Quercus sp.*, Monterey pine, coast redwood, CA Bay laurel, and CA buckeye. 10"DBH all other 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 Extension & Live Foliar Density (Very Poor, Poor, Mod, Good, Exc.)	Lopsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Vehicle and/or Machinery Damages (Physical Impact)	Severe Pruning by Tanforan Mall Contractors	Buried Root Crown (BRC), Girdling Roots (GR), or Circling Roots (CR)	"Fruit Tree Leaf Roller" caterpillar chewing damage in Feb 2024 noted as significant or severe (holly oak specimens)	NOTES	PROTECTION AND MAINTENANCE RECOMMENDATIONS (IF TREE TO BE RETAINED AND PROTECTED IN PLACE)
99	X	9	6.4	0.0	0.0	X	coast live oak	*Quercus agrifolia*	22/15	20/30	25% Poor	Very Poor	East.						Witch's broom fungal condition throughout canopy, negatively affecting tree vigor (health) in terms of twig and foliar growth. This is actually quite commonly seen on coast live oak specimens growing in close proximity to SF Bay, especially when the tree is in a shaded position or exposed to high velocity winds and fog.	

WALTER LEVISON, CONSULTING ARBORIST (WLCA)
TANFORAN MALL TREE SURVEY 2/15/2024
MARKUPS INDICATED ON MOST SHEETS IN THIS TOPOGRAPHIC SURVEY SHEET SERIES.
TREE TAGS ARE NUMERIC RACETRACK-SHAPED ALUMINUM TAGS, AFFIXED TO TREES BETWEEN ZERO AND 5 FEET ELEVATION ABOVE GRADE, STARTING WITH TAG "1" AND ASCENDING IN ORDER WITH NO NUMBER GAPS.

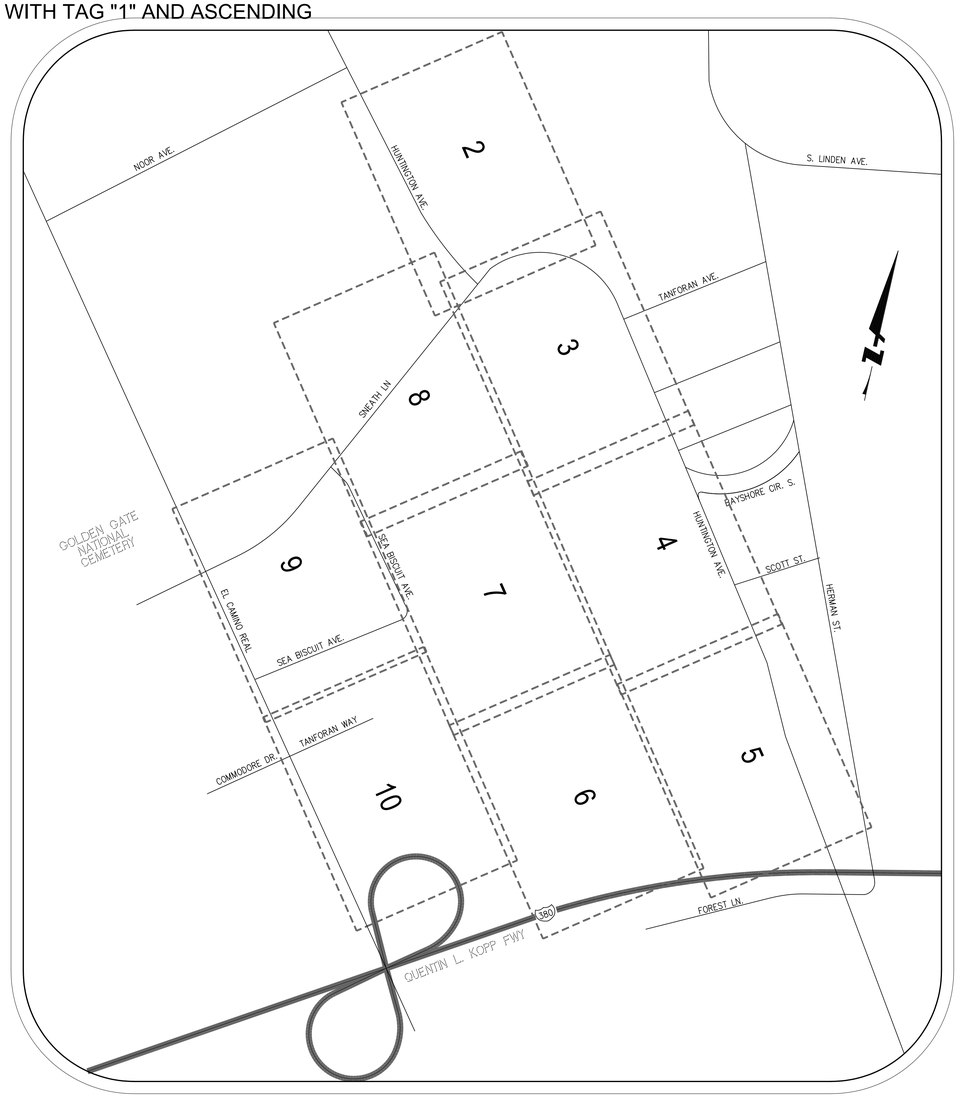
ARROWS ON THE FOLLOWING SHEET MARKUPS BY WLCA INDICATE TREE TAG NUMBERING SEQUENCE IN ASCENDING ORDER.

NOTE: SHEETS MARKED BY WLCA WITH NUMERIC TREE TAG LOCATIONS ARE SHEETS #3, 4, 5, 6, 8, 9, AND #10 ONLY.

UTILITY SYMBOLS & ABBREVIATIONS

- EP — Electric Pedestal (above ground)
- EM — Electric Meter
- EV — Electric Access Vault (underground)
- EB — Electric Access Box (mounted)
- Light Pole
- Yard Light
- Light Pole Arm
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- FV — Fiber Optic Vault (underground)
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- TA — Telephone Access Vault (underground)
- TB — Telephone Access Box (mounted)
- RU — Regulator Unit
- GM — Gas Meter
- Gas Valve
- SS — Sanitary Sewer Manhole
- Clean-out
- SD — Storm Sewer Manhole
- Grate Inlet
- Grate Inlet (round)
- Pipe Continues–Outlet or Source Not Found or Not Surveyed
- AC — Air Conditioner Unit
- Water Valve
- Fire Hydrant
- WM — Water Meter
- W — Water Manhole
- WV — Water Vault (underground)
- BPV — Water Back Pressure Valve
- SCA — Sprinkler Control Box
- SCA — Sprinkler Control Box
- Yard Hydrant
- (XXXX) — Sanitary Sewer Identifier
- (XX) — Approximate Depth of Utility (Inches)
- (YYYY) — Storm Sewer Identifier

TANFORAN MALL



VICINITY MAP & SHEET INDEX
N.T.S.

UTILITY LINE LEGEND

- OU — Existing Overhead Utility line as located during the field work for this survey.
- UE — Existing Underground Electric line as located during the field work for this survey.
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- S — Denotes a connection between sanitary structures based on sounding and visual evidence when measuring pipes at structure.
- ST — Denotes a connection between storm structures based on sounding and visual evidence when measuring pipes at structure.
- ST — Denotes a connection between storm structures as shown on City of Sunnyvale As-Built maps.
- W — Existing Water line as located during the field work for this survey.
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- 4"W — Existing 4" Water line as located during the field work for this survey.
- 8"W — Existing 8" PVC Reclaimed Water line as located during the field work for this survey.
- 12"W — Existing 12" Ductile Iron Pipe Water line as located during the field work for this survey.
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- ZO — Existing Zayo Fiber line as located during the field work for this survey.

SURVEY NOTES

1. ALL DISTANCES AND DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF.
2. DATES OF FIELD SURVEY: DECEMBER 2021, JANUARY 2022
3. BENCHMARK: THE BENCHMARK USED FOR THIS SURVEY IS A CITY MONUMENT STAMPED "CITY OF SAN BRUNO. PUBLIC WORKS, HVCN SB–11", DESCRIBED AS A 2" BRASS DISC IN TOP OF CURB ON HUNTINGTON AVE., 90' SOUTHERLY OF THE DRIVEWAY INTO THE SAN BRUNO POST OFFICE, CITY OF SAN BURNO.

   ELEV = 45.572 FEET (NAVD88 DATUM)
4. HORIZONTAL CONTROL AND COORDINATE: VALUES SHOWN HEREON ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 3, NAD 83(2011), EPOCH 2021.75 DETERMINED BY GLOBAL NAVIGATION SATELLITE SYSTEM(GNSS) SURVEY METHODS.
5. AERIAL BASED TOPOGRAPHIC MAP SHOWN AS BACKGROUND TO THIS SURVEY PROVIDED BY 360 AERIAL SURVEYS DATED DECEMBER 16, 2021.
6. UTILITY NOTE: THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE BASED ON BKF UTILITY LOCATORS. BKF PERFORMED THE UTILITY INVESTIGATION SERVICES USING INDUSTRY ACCEPTABLE METHODS TO DETERMINE THE APPROXIMATE HORIZONTAL POSITION AND DEPTH OF EXISTING UTILITIES ON THE SUBJECT SITE. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, GIVEN THE CURRENT TECHNOLOGICAL LIMITATIONS OF THE LOCATING EQUIPMENT, A GUARANTEE AS TO ALL UTILITIES CANNOT BE MADE.

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TOPOGRAPHIC SURVEY
TANFORAN MALL
SAN BRUNO
SAN MATEO COUNTY
CALIFORNIA

Revisions	No.

Date: 12-23-2021
Scale: 1" = 20'
Design: NA
Drawn: GA
Approved: RV
Job No: 20211833

Drawing Number:
211833
1 OF 10

PLOTTED BY: mark
PLOTTED ON: Jan 26, 2022 - 8:39am
E:\2021\21-1833\Dwg\Survey\211833_Dwg_Survey_Plan.dwg

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- Yard Hydrant
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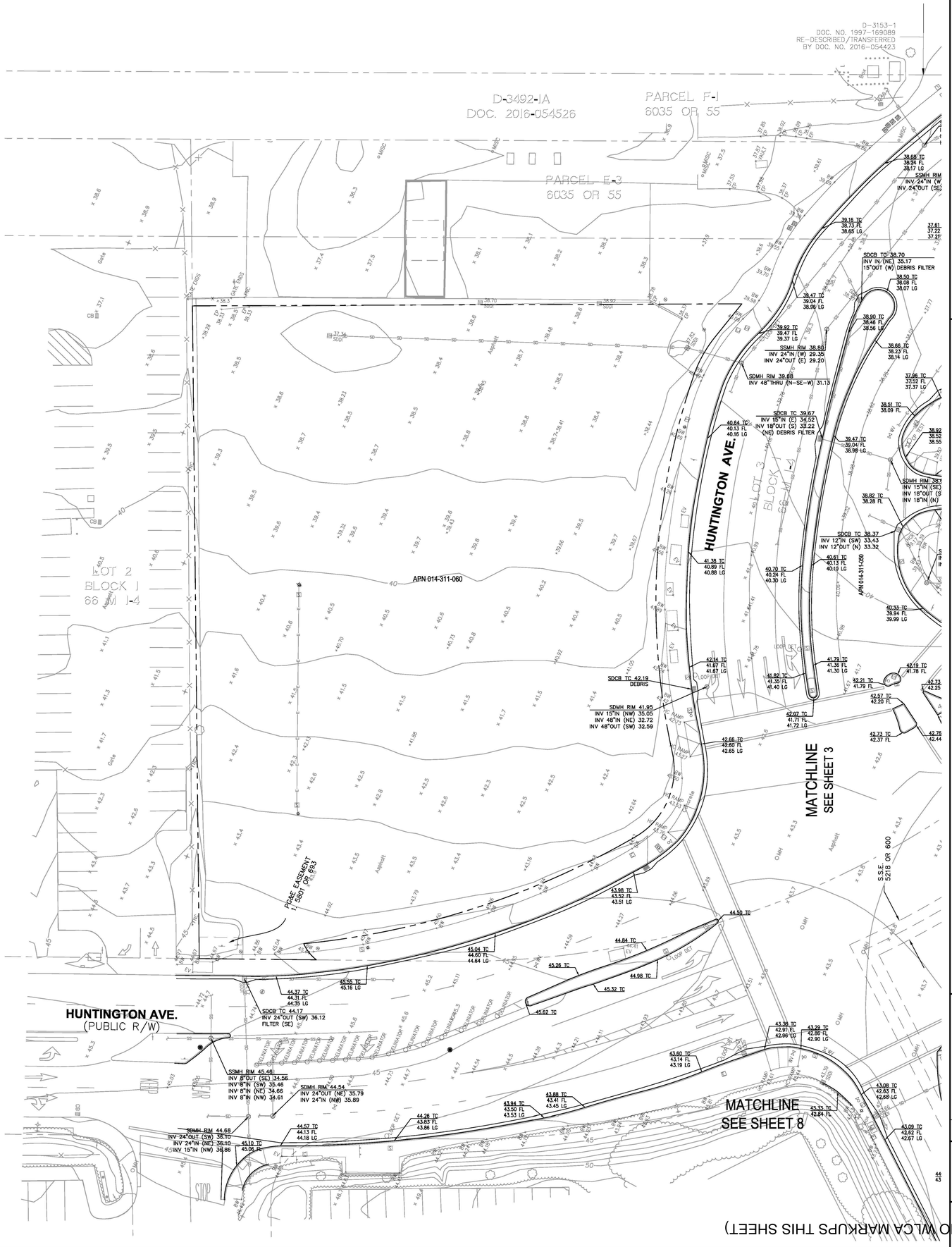
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1" = 20'

0 10 20 40

(SCALE IN FEET)



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TOPOGRAPHIC SURVEY
TANFORAN MALL

SAN BRUNO — SAN MATEO COUNTY — CALIFORNIA

No.	Revisions

Date: 12-23-2021
Scale: 1" = 20'
Design: NA
Drawn: GA
Approved: RV
Job No: 20211833

Drawing Number: 211833

1 OF 10

(NO WLCA MARKUPS THIS SHEET)

PLOT TIME/DATE: 12/23/2021 4:27:00 PM
PLOTTED BY: Gary Arnold
FILENAME: G:\2021\20211833_Tan_Sur_Rvt_Ins\Civil\20211833-CB-SC_ELEVATION.dwt

ARROWS INDICATE TREE TAG NUMBERING SEQUENCE IN ASCENDING ORDER.

MATCHLINE SEE SHEET 8

(SCALE IN FEET)

0 10 20 40

1"=20'

APN 014-316-310

PARKING DECK (SEARS) PARCEL "SEARS PARCEL II" DOC. NO. 2005-037895

APN 014-316-160

PARCEL ONE DOC. NO. 2010-037143

D-3516-1

(NO ACCESS SECURE AREA)

APN 014-311-040

APN 014-311-060

APN 014-311-090

APN 014-311-080

PARCEL FOUR DOC. NO. 2010-037143

LOT 4 BLOCK 1 66 M 1-4

PARCEL THREE DOC. NO. 2010-037143

D-3496-D

LOT 3 BLOCK 1 66 M 1-4

PARCEL E-2 5642 OR 610, 5801 OR 250, 6035 OR 55 (DEED, 161 OR 7)

DOC. 2016-054524

D-3510-1

10' UTILITY EASEMENT 2010-037143

S.S.E. 5218 OR 600

PUE 66 M 1-4

HUNTINGTON AVE.

S. MAPLE AVE (PUBLIC R/W)

See Sheet 6

MATCHLINE SEE SHEET 4

MATCHLINE SEE SHEET 2

77 7675

450.00'

60.00'

82.00'

RE-DESIGNED/TRANSFERRED DOC. NO. 1997-169089 BY DOC. NO. 2016-054423

D-3153-1

SAN BRUNO

SAN MATEO COUNTY CALIFORNIA

TOPOGRAPHIC SURVEY TANFORAN MALL

Drawing Number: 211833

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Design: NA
Drawn: GA
Approved: RV
Job No: 20211833

No.	Revisions

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ARROWS INDICATE TREE TAG NUMBERING SEQUENCE
IN ASCENDING ORDER.

TOPOGRAPHIC SURVEY
TANFORAN MALL

SAN MATEO COUNTY CALIFORNIA

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Date: 12-23-2021
Scale: 1" = 20'
Design: NA
Drawn: GA
Approved: RV
Job No: 20211833

Drawing Number: 211833
4 OF 10

No.	Revisions

MATCHLINE
SEE SHEET 5

MATCHLINE
SEE SHEET 7

MATCHLINE
SEE SHEET 3

See Sheet 3

GO TO SHEET 6

SCALE IN FEET
0 10 20 40
1"=20'

APN 014-316-080

APN 014-316-160

APN 014-316-370

APN 014-316-210

HUNTINGTON AVE.

S. MAPLE AVE.
(PUBLIC R/W)

65 66 67 68 69 70 71 72 74

25 26 27 28 29

72.00'

45.00'

72.00'

PARCEL TWO
DOC. NO. 2010-037143
D-3519-IA

PARCEL FIVE
DOC. NO. 2010-037143
D-3518-IB

PARCEL E-2
5642 OR 610, 580I OR 250,
6035 OR 55
(DEED 181 OR)

EXHIBIT A — DOC. NO. 2000-157336
PARCEL D-3516X-2A
DESCRIBED IN EXHIBIT A IN DOC. NO. 2019-019190
DESCRIBED IN EXHIBIT A IN DOC. NO. 2019-019191
DESCRIBED IN APPENDIX A IN DOC. NO. 2019-019192
DESCRIBED IN APPENDIX A IN DOC. NO. 2019-019193
DESCRIBED IN EXHIBIT A IN DOC. NO. 2019-019194

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ARROWS INDICATE TREE TAG NUMBERING SEQUENCE
IN ASCENDING ORDER.

MATCHLINE
SEE SHEET 6

MATCHLINE
SEE SHEET 4

See
Sheet 4

64

63

62

HIGHWAY 380
(PUBLIC R/W)

HUNTINGTON AVE.

7' CL OF PG&E EASEMENT
6126 OR 67/63

72.00'

60.00'

(SCALE IN FEET)
0 10 20 40
1"=20'

TOPOGRAPHIC SURVEY
TANFORAN MALL
SAN MATEO COUNTY
CALIFORNIA

Drawing Number: 211833
Date: 12-23-2021
Scale: 1" = 20'
Design: NA
Drawn: GA
Approved: RV
Job No: 20211833

No.	Revisions

5 OF 10

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No.	Revisions

Date: 12-23-2021
Scale: 1" = 20'
Design: NA
Drawn: GA
Approved: RY
Job No: 20211833

Sheet 6 of 10

TREE #26 IS ON SHEET 4 OF 10

ARROWS INDICATE TREE TAG NUMBERING SEQUENCE IN ASCENDING ORDER.

1"=20'

(FEET IN SCALE)

HIGHWAY 380
(PUBLIC R/W)

MATCHLINE
SEE SHEET 5

MATCHLINE
SEE SHEET 10

SEE SHEET 5

MATCHLINE
SEE SHEET 7

PARCEL C
10 M 46

APN 014-316-300

7' CL OF PG&E EASEMENT
6126 OR 676

7' CL OF PG&E EASEMENT
6126 OR 676

PARKING DECK
(J.C. PENNY)
"PARCEL 1"
DOC. NO. 2005-037935

ABUTTERS RIGHTS
5028 OR 227, 5210 OR 608
DEC. 31, 1965

5642 OR 810, 5801 OR 650
6035 OR 82, 2005-132409

SDDI RIM 50.03
15"RF (NE)
INV 41.46
15"OUT (NW)
BOT. BOX 40.79
50.24 TC
50.02 FL

SDDI RIM 50.80
INV 44.46 (ABANDONED)
(FL TER. SYSTEM)

50.20 TC
50.58 FL

50.36 TC
50.08 FL

49.32 TC
54.97 FL

49.26 TC
54.96 FL

49.44 TC
49.04 FL

49.39 TC
49.09 FL

SDMH RIM 47.36
INV 42.63
INV 41.11
INV 36"THRU (SW-NE)

SDMH RIM 47.54

SDMH RIM 47.05
(INACCESSIBLE)

SDMH RIM 48.82
INV 15"N (NW) 42.17
INV 15"N (SE) 38.36
INV 36"N (SW) 38.39
INV 36"OUT (NE) 38.24

SDDI RIM 48.35
TOP OF DEBRIS 47.01

SDDI RIM 48.81
TOP OF DEBRIS 45.80

SDMH RIM 48.71
INV 6"N (SW) 41.51
INV 10"OUT (NW) 41.30

FULL OF DIRT

SDMH RIM 55.64
INV 15"N (NW) 57.23
INV 12"OUT (SE) 57.16

SDMH RIM 55.70
INV 12"OUT (SE) 43.61
INV 12"N (NW) 43.61

SDDI RIM 65.72
INV 8"N (NW) 61.97
INV 8"OUT (W) 61.82

66.56 TC

66.83 TC

16 17 18 19 20 21 22 23 24 30

SSCO
HC RAMP
STOP
BLDG COR
CONC WALK
ASPHALT
PKWY
LANDSCAPE

MATCHLINE
SEE SHEET 4

6751 OR 648
INST. NO. 1985-047900

PARCEL B
10 M 46

PARCEL ONE/TWO
INSTR. NO. 1985-047900

APN 014-316-360

MATCHLINE
SEE SHEET 5

MATCHLINE
SEE SHEET 8

PARCEL A
10 M 46

APN 014-316-330

MATCHLINE
SEE SHEET 9

6751 OR 648

MATCHLINE
SEE SHEET 10

1"=20'

0 10 20 40
(SCALE IN FEET)

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TOPOGRAPHIC SURVEY
TANFORAN MALL

SAN MATEO COUNTY
CALIFORNIA
SAN BRUNO

No.	Revisions

Date: 12-23-2021
Scale: 1" = 20'
Design: NA
Drawn: CA
Approved: RV
Job No: 20211833

Drawing Number:
211833

7 OF 10

(NO WLCA MARKUPS THIS SHEET)

TOPOGRAPHIC SURVEY
TANFORAN MALL

SAN BRUNO

SAN MATEO COUNTY

CALIFORNIA

ARROWS INDICATE TREE TAG NUMBERING SEQUENCE IN ASCENDING ORDER.

MATCHLINE SEE SHEET 9

MATCHLINE SEE SHEET 7

MATCHLINE SEE SHEET 3

MATCHLINE SEE SHEET 2

SNEATH LANE (PUBLIC R/W)

78 79 80 81 82 83 84 85 86 87 88 89 90 91 92

APN

(SCALE IN FEET)

0 10 20 40

1"=20'

See Sheet 9 for End of WECA Tree Study

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No.	Revisions

Date: 12-23-2021
Scale: 1" = 20'
Design: NA
Drawn: GA
Approved: RV
Job No: 20211833

Drawing Number:

8 OF 10

211833

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(NO WLCA MARKUPS THIS SHEET)

MATCHLINE
SEE SHEET 10

MATCHLINE
SEE SHEET 9

MATCHLINE 5
SEE SHEET 6

MATCHLINE
SEE SHEET 8

MATCHLINE
SEE SHEET 4

APN 014-316-330

APN 014-316-360

PARCEL A
10 M 46

PARCEL B
10 M 46

PARCEL ONE/TWO
INST. NO. 1985-047900

INST. NO. 1985-047900
675I OR 648

675I OR 648

93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111

End of Survey

(SCALE IN FEET)
0 10 20 40
1"=20'

ARROWS INDICATE TREE TAG NUMBERING SEQUENCE
IN ASCENDING ORDER.

Black clouded area = non-tagged tree specimens #112, 113, 114, 115, 116, and #117, which are very small (6 foot height) "new" plantings without any supplemental irrigation water, in "dead" overall condition. Mainstems of the trees in this grouping measure less than 1.0 inch diameter each. The WLCA tree study ends on this topographic survey sheet #9, at tree number #117.

TOPOGRAPHIC SURVEY
TANFORAN MALL
SAN MATEO COUNTY
CALIFORNIA

Drawing Number: 211833 / 10

Date: 12-23-2021
Scale: 1" = 20'
Design: NA
Drawn: GA
Approved: RV
Job No: 20211833

No.	Revisions

BKF
1730 N. FIRST STREET
SUITE 600
SAN JOSE, CA 95112
408-467-9100
www.bkf.com

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ARROWS INDICATE TREE TAG NUMBERING SEQUENCE IN ASCENDING ORDER.

SEE SHEET 6

EL CAMINO REAL
(PUBLIC R/W)

HIGHWAY 380
(PUBLIC R/W)

STREET LIGHT EASEMENT
2008-087097

STREET LIGHT EASEMENT
2008-087097

MATCHLINE
SEE SHEET 9

MATCHLINE
SEE SHEET 6

7' CL OF PG&E EASEMENT
6742 OR 370

10' CL OF SANITARY SEWER EASEMENT
5218 OR 610

ABUTTERS RIGHTS
5388 OR 221, 5746 OR 408
DEC 31, 1945

START SURVEY

STOP

(SCALE IN FEET)
0 10 20 40

1"=20'

Date: 12-23-2021	No.	Revisions
Scale: 1" = 20'		
Design: NA		
Drawn: GA		
Approved: RV		
Job No: 20211833		

Drawing Number:
211833 10 OF 10

TOPOGRAPHIC SURVEY
TANFORAN MALL

SAN BRUNO

SAN MATEO COUNTY

CALIFORNIA

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No.	Revisions

Job No: 20211833
Approved: RV
Drawn: GA
Design: NA
Scale: 1" = 20'
Date: 12-23-2021

Drawing Number:
211833
9 OF 10

EL CAMINO REAL
(PUBLIC R/W)

SNEATH LANE
(PUBLIC R/W)

MATCHLINE
SEE SHEET 10

MATCHLINE
SEE SHEET 8

BLOCK 4
66 M 1-4

(SCALE IN FEET)
0 10 20 40
1"=20'

ARROWS INDICATE TREE TAG NUMBERING SEQUENCE
IN ASCENDING ORDER.

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End of Survey

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