



LIVE OAK ASSOCIATES, INC.

an Ecological Consulting Firm

December 14, 2018

Heide Antonescu
Trumark Homes LLC
3001 Bishop Drive, Suite 100
San Ramon, CA 94583

Subject: Amended Tree Survey and Report for 2550 Camino Tassajara property in the Town of Danville, California (LOA PN 2172-01)

Dear Ms. Antonescu,

Per your request, Live Oak Associates (LOA) certified arborist Neal Kramer has revisited the project site located at 2550 Camino Tassajara in the Town of Danville, California (Figure 1) on November 20, 2018. The purpose of this visit was to survey several trees not included in previous tree surveys conducted on the project site by LOA in September 2017 and July 2018. The November 2018 survey documented three trees located outside the project boundary between the project boundary and Camino Tassajara. These include one coast live oak (*Quercus agrifolia*) and two California buckeyes (*Aesculus californica*). The coast live oak (Figure 2. Tree 69) and one buckeye (Tree 70) qualify as protected trees under Danville Tree Preservation Ordinances.

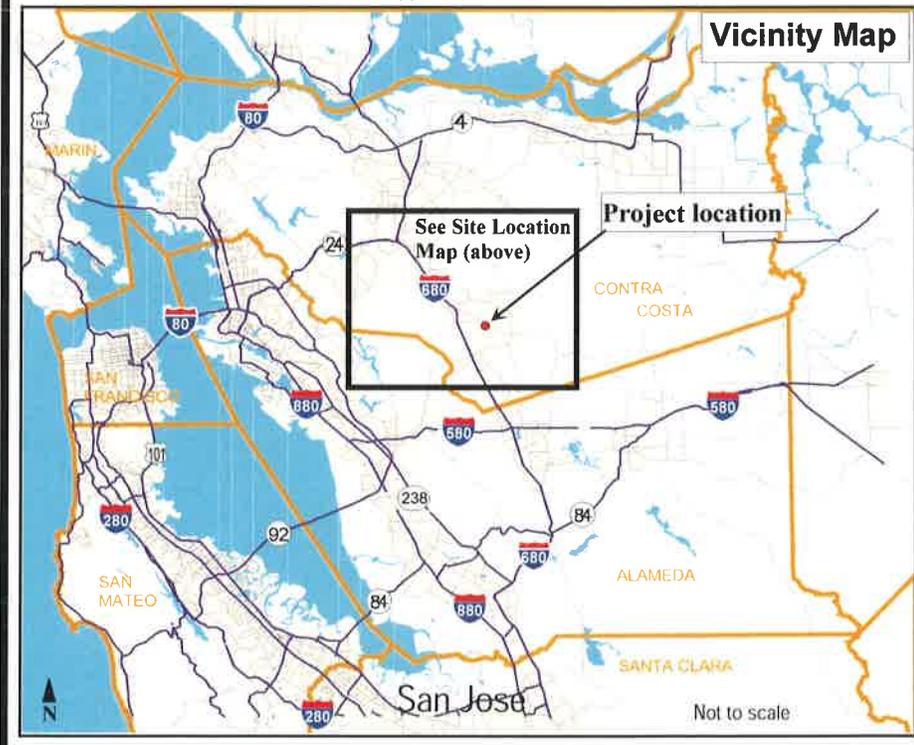
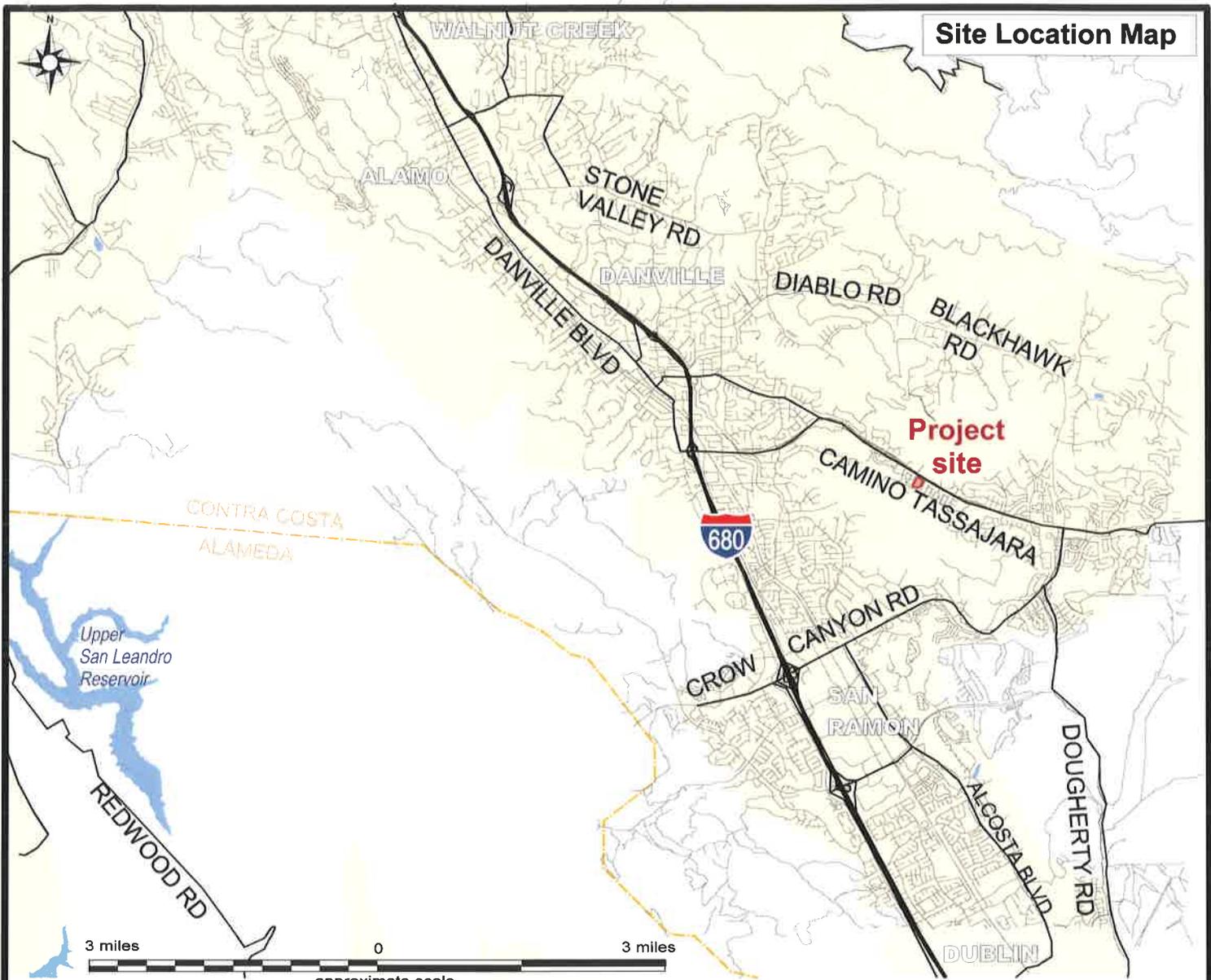
An initial tree survey conducted on this project site by LOA arborist Neal Kramer on September 22, 2017 documented 56 trees (LOA letter report September 29, 2017). A second tree survey, conducted by LOA arborist Wendy Fisher on July 2, 2018, documented twelve additional trees adjacent to the project site at the end of Fieldstone Drive cul-de-sac (LOA letter report July 9, 2018).

This amended arborist report provides updated text, figures and tables incorporating information from all of the three September 2017, July 2018, and November 2018 LOA tree surveys.

The approximately 5.5 acre Camino Tassajara project site is currently occupied by Tassajara Nursery, a retail sales operation which includes growing facilities, offices and other associated infrastructure. Eighteen two-story home sites and public streets are proposed for the property.

TOWN OF DANVILLE TREE PRESERVATION ORDINANCE

The Town of Danville acknowledges the importance of trees for community health, safety welfare, and tranquility. As such, the Tree Preservation Ordinance, Section 32-79 of the Municipal Code, protects certain trees and requires an approved Tree Permit be obtained before a protected tree can be destroyed or removed.



	Live Oak Associates, Inc.		
	2550 Camino Tassajara Danville, CA Tree Survey Site / Vicinity Map		
Date	Project #	Figure #	
9/19/2017	2172-01		1

Tree Preservation Ordinance definitions

Tree: a live woody plant having a single perennial stem or a multi-stemmed perennial plant which is over fifteen (15) feet in height at maturity. This definition does not include trees planted, grown and held for sale by licensed nurseries or planted and grown as part of an active commercial orchard.

Protected tree:

- a. any of the following trees having a trunk or main stem which measures ten (10) inches or greater in diameter measured four and one-half (4-1/2) feet above natural grade or, for a multiple trunked tree, a combination of trunks totaling twenty (20) inches or greater in diameter measured four and one-half (4-1/2) feet above natural grade, on any type of lot or property: Coast live oak, valley oak, canyon live oak, blue oak, California black oak, interior live oak, white alder, California bay, California buckeye, California sycamore, madrone or London plane tree.
- b. any Heritage Tree
- c. any Memorial Tree
- d. a tree shown to be preserved on an approved Development Plan or specifically required by the Planning Commission to be retained as a condition of approval of an entitlement.
- e. a tree required to be planted as mitigation for the removal of a protected tree.

Heritage Tree: any single trunked tree in Town, regardless of species, which has a trunk diameter of thirty-six (36) inches or greater measured four and one-half (4-1/2) feet above the ground.

Memorial Tree: a tree planted on public property in memory of or commemoration of an individual or individuals.

METHODS

During the initial September 22, 2017 site visit an existing chain link fence surrounding the 2550 Camino Tassajara property was used to approximate project boundaries for the purposes of this report. All trees with a trunk diameter of 5 inches or greater at 54 inches above the ground on the project site, and all trees immediately adjacent with any portion of their canopy overhanging the project site were included in the September 2017 survey and report. In addition to trunk diameter, the survey included a record of the tree species, approximate tree height and tree canopy spread, and an assessment of general tree health and structure.

A limited visual assessment of tree health and structure was used to assign a general condition rating for each tree according to the following scale:

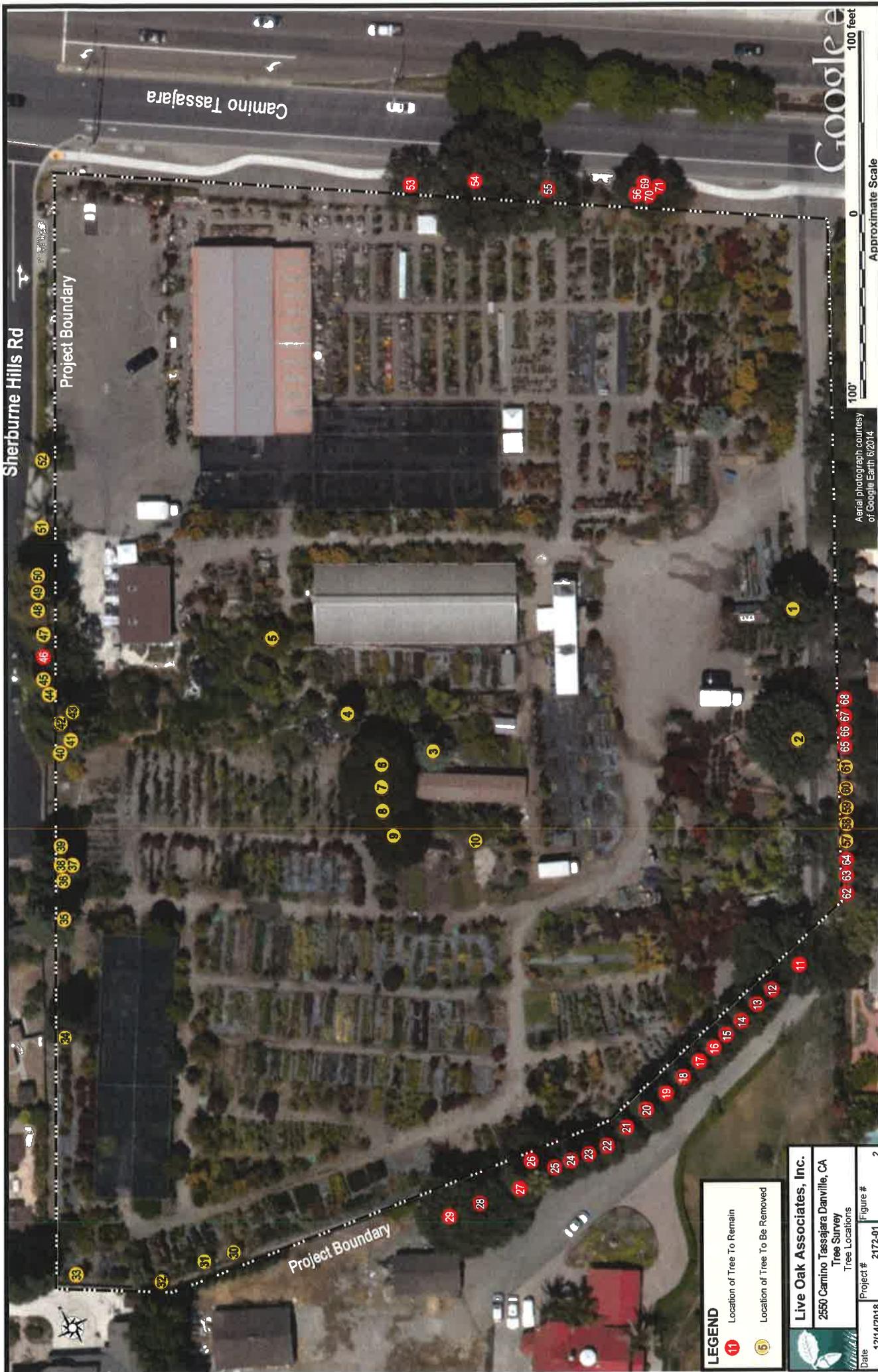
Good = 80-100% healthy foliage and no significant defects;

Fair = 50-79% healthy foliage and/or minor defects:

Poor = 5-49% healthy foliage and/or other significant defects; and

Dead = less than 5% healthy foliage.

Each tree surveyed on the project site was marked with a numbered aluminum tag. For trees outside the project boundary fence, the numbered tag was attached to the fence at a point closest to the tree trunk. The approximate location of each tree was noted on an aerial field map during the site visit.



Sherburne Hills Rd

Project Boundary

Camino Tassajara

Project Boundary

Google

Aerial photograph courtesy of Google Earth ©2014

Approximate Scale

100 feet

LEGEND

- ① Location of Tree To Remain
- ⑤ Location of Tree To Be Removed

Live Oak Associates, Inc.

2550 Camino Tassajara Danville, CA

Tree Survey

Tree Locations

Date 12/14/2018 Project # 2172-01 Figure # 2

SURVEY RESULTS AND DISCUSSION

A total of 71 trees were documented during September 2017, July 2018 and November 2018 surveys. Approximate locations for all trees surveyed are shown on Figure 2 and a summary of information collected for each tree is provided below in Table 1.

Twenty-four of 71 trees surveyed are on the project site. The remaining 47 trees are outside the project boundary, but are immediately adjacent to the project site and could be affected by project development. Trees surveyed on the project site include 12 coast redwoods (*Sequoia sempervirens*), 2 valley oaks (*Quercus lobata*), 4 tree-of-heavens (*Ailanthus altissima*), 4 sawtooth zelkovas (*Zelkova serrata*), 1 glossy privet (*Ligustrum lucidum*) and 1 coast live oak (*Quercus agrifolia*). Trees surveyed outside the project boundary include 22 coast redwoods, 9 valley oaks, 9 coast live oaks, 3 California buckeye (*Aesculus californica*), 2 queen palms (*Syagrus romanzoffianum*), 1 Deodar cedar (*Cedrus deodara*), and 1 glossy privet (*Ligustrum lucidum*). Of trees surveyed, only valley oak, coast live oak, and California buckeye are native to the Danville area.

Twenty-two Protected Trees were recorded during the tree survey. These include eleven valley oaks (Trees 1, 2, 11, 26, 28, 29, 46, 53-55 and 57), nine coast live oaks (Trees 58-61 and 65-69) and two California buckeyes (Trees 56 and 70), and. Protected Trees 1 and 2 are rooted on the project site. All others are rooted outside the project boundary, but are adjacent to the project site and could be impacted by project development. Protected Trees are identified in bold print and are listed under the Protected Tree column in Table 1.

One Heritage Tree was identified during the tree survey. Tree number 54 is a valley oak with a trunk diameter of 50 inches and a canopy spread of approximately 60 feet. The trunk of this tree is located approximately 12 feet outside the northeast project boundary along Camino Tassajara.

No Memorial Trees are present on or immediately adjacent to the project site.

TABLE 1. Results of Tree Surveys, 2550 Camino Tassajara, Danville, CA, September 22, 2017, July 2, 2018 and November 20, 2018

Tree #	Species	Trunk diameter @ 54" above ground (inches)	Approx. Canopy Spread (feet)	Approx. Height (feet)	General Condition*	Protected Tree	Retain/Remove
1	Valley oak	28	50	50	Good	Yes	Remove
2	Valley oak	24	48	48	Good	Yes	Remove
3	Coast redwood	18	25	38	Fair	-	Remove
4	Coast redwood	23	21	38	Fair	-	Remove
5	Glossy privet	9	18	26	Fair	-	Remove
6	Sawtooth zelkova	17	30	28	Good	-	Remove
7	Sawtooth zelkova	14	26	31	Fair	-	Remove
8	Sawtooth zelkova	15	24	31	Fair	-	Remove
9	Sawtooth zelkova	23	28	38	Poor	-	Remove
10	Coast live oak	7	14	18	Good	-	Remove
11¹	Valley oak	28 ²	48	36	Fair	Yes	Retain
12¹	Coast redwood	16 ²	24	40	Fair	-	Retain

Tree #	Species	Trunk diameter @ 54" above ground (inches)	Approx. Canopy Spread (feet)	Approx. Height (feet)	General Condition*	Protected Tree	Retain/Remove
13 ¹	Coast redwood	20 ²	36	50	Good	-	Retain
14 ¹	Coast redwood	24 ²	28	55	Good	-	Retain
15 ¹	Coast redwood	16 ²	32	50	Fair	-	Retain
16 ¹	Coast redwood	18 ²	32	50	Good	-	Retain
17 ¹	Coast redwood	18 ²	28	50	Good	-	Retain
18 ¹	Coast redwood	20 ²	32	55	Good	-	Retain
19 ¹	Coast redwood	18 ²	28	50	Fair	-	Retain
20 ¹	Coast redwood	26 ²	32	60	Good	-	Retain
21 ¹	Coast redwood	20 ²	32	45	Good	-	Retain
22 ¹	Coast redwood	16 ²	18	50	Fair	-	Retain
23 ¹	Coast redwood	16 ²	18	45	Fair	-	Retain
24 ¹	Coast redwood	18 ²	30	55	Good	-	Retain
25 ¹	Coast redwood	18 ²	22	50	Fair	-	Retain
26 ¹	Valley oak	11 ²	50	35	Fair	Yes	Retain
27 ¹	Coast redwood	24 ²	30	65	Good	-	Retain
28 ¹	Valley oak	28+8 ²	36	25	Fair	Yes	Retain
29 ¹	Valley oak	22 ²	38	45	Good	Yes	Retain
30	Tree-of heaven	6+4+3	14	30	Fair	-	Remove
31	Tree-of heaven	5+5+5+4+3	20	30	Fair	-	Remove
32	Tree-of heaven	6	12	32	Fair	-	Remove
33	Tree-of heaven	7+4	16	28	Fair	-	Remove
34	Coast redwood	24+23	26	50	Good	-	Remove
35	Coast redwood	30+26	30	60	Good	-	Remove
36	Coast redwood	23	18	45	Good	-	Remove
37	Coast redwood	21	18	45	Good	-	Remove
38	Coast redwood	19	15	50	Fair	-	Remove
39	Coast redwood	24	18	50	Good	-	Remove
40	Coast redwood	24	20	65	Good	-	Remove
41	Coast redwood	31	30	60	Good	-	Remove
42	Coast redwood	27	16	65	Good	-	Remove
43	Coast redwood	20+17	20	69	Fair	-	Remove
44 ¹	Glossy privet	14	18	32	Fair	-	Remove
45 ¹	Deodar cedar	21	18	50	Fair	-	Remove
46 ¹	Valley oak	16	33	50	Fair	Yes	Retain
47 ¹	Coast redwood	24	18	70	Good	-	Remove
48 ¹	Coast redwood	34	22	75	Good	-	Remove
49 ¹	Coast redwood	17+20	16	70	Fair	-	Remove
50 ¹	Coast redwood	26+14	20	65	Good	-	Remove
51 ¹	Queen palm	12	20	30	Fair	-	Remove
52 ¹	Queen palm	15	20	35	Good	-	Remove
53 ¹	Valley oak	15	22	30	Fair	Yes	Retain
54 ¹	Valley oak	50	60	60	Good	Yes	Retain
55 ¹	Valley oak	18	26	45	Good	Yes	Retain
56 ¹	California buckeye	21+11	25	35	Fair	Yes	Retain
57 ¹	Valley oak	14	25	35	Good	Yes	Remove
58 ¹	Coast live oak	16	38	40	Good	Yes	Remove
59 ¹	Coast live oak	14	25	38	Good	Yes	Remove
60 ¹	Coast live oak	14	30	30	Good	Yes	Remove
61 ¹	Coast live oak	13	15	20	Good	Yes	Remove
62 ¹	Coast redwood	18	20	100	Good	-	Retain

Tree #	Species	Trunk diameter @ 54" above ground (inches)	Approx. Canopy Spread (feet)	Approx. Height (feet)	General Condition*	Protected Tree	Retain/Remove
63 ¹	Coast redwood	29	20	120	Good	-	Retain
64 ¹	Coast redwood	28	20	120	Good	-	Retain
65 ¹	Coast live oak	16	35	40	Good	Yes	Retain
66 ¹	Coast live oak	10	15	45	Good	Yes	Retain
67 ¹	Coast live oak	14	20	40	Good	Yes	Retain
68 ¹	Coast live oak	13	20	35	Fair	Yes	Retain
69 ¹	Coast live oak	12+17	32	30	Good	Yes	Retain
70 ¹	California buckeye	5+10	20	22	Fair	Yes	Retain
71 ¹	California buckeye	7+7	16	20	Fair	-	Retain

¹ Tree outside project boundary, but immediately adjacent and may be affected by project development.

² Trunk diameter estimated. Access to tree to measure trunk was not available at time of survey.

* Condition: **Good** = 80-100% healthy foliage and no significant defects; **Fair** = 50-79% healthy foliage and/or minor defects; **Poor** = 5-49% healthy foliage and/or other significant defects; **Dead** = less than 5% healthy foliage

Development Impacts

Based on a conceptual site plan provided by Trumark Homes and dated November 27, 2018, it is projected that 37 trees will be removed for project development. Trees projected for removal are identified under the Retain/Remove column on Table 1 and are indicated in yellow on tree location map Figure 2.

Trees projected for removal include seven Protected Trees. These include three valley oaks (trees 1, 2 and 57) and four coast live oaks (trees 58, 59, 60, 61).

The list of trees to be removed in this report is preliminary. Once final site and grading plans are in place, these plans should be reviewed by a Certified Arborist to make a final determination regarding which trees will need to be removed and which can be retained. At that time, a Tree Protection Plan should be developed by a certified arborist to protect retained trees from potential development impacts. The Tree Protection Plan should be in place and implemented prior to the commencement of any demolition, grading, staging or construction activities.

Unless expressed otherwise, the evaluation of trees discussed in this report is limited to a visual examination of accessible parts without dissection, excavation, probing, or coring. There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the trees in question may not arise in the future.

If you have any questions regarding findings or other elements of this report, please feel free to contact me at (650) 563-9943 or (650) 208-0061.

Sincerely,



Neal Kramer
Certified Arborist #WE-7833A