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PETALUMA, CALIFORNIA

ARBORIST'S REPORT

July 14, 2022

Prepared & Submitted By:

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TREE INVENTORY & EVALUATION

July 14, 2022

This is a relatively level site, bordered on the west side by Adobe Creek. All protected trees over 4" d.b.h. on this site that may be impacted by construction have been measured, identified and evaluated. Their locations have been surveyed in the field with numbers which relate to the numbers shown on the Existing Conditions Exhibit by Steven Lafranchi & Associates, dated 4/27/22, and the accompanying tree inventory/report.

Most of the trees were planted as part of the ornamental landscaping years ago in two phases, though there are a few native trees near the creek bank.

Report & Recommendations - The format of the Tree Inventory/Evaluation & Arborist's Report is as follows:

Tree Location Plan - The existing trees are located and numbered on the Existing Tree Exhibit referenced for discussion in the Tree Inventory & Evaluation.

Tree Inventory & Evaluation - A listing and discussion of the existing trees on site, including the following information:

Number - The number assigned to a tree for location reference on the Existing Conditions Exhibit

Diameter - Trunk diameter at 54" above grade (d.b.h.), (unless noted otherwise)

Common Name

Botanical Name

Condition – Brief rating of tree's present overall health

Structure – Brief rating of tree's structural condition

Recommendations - Specific comments regarding tree status on proposed plans

Tree Protection Measures – Site specific, to be printed on final plans

Protected Tree Removal List – As per Petaluma's ordinance, mitigation will be shown on Landscape Plans

If there are any questions, or more information is needed, please contact me.

Respectfully submitted,

Becky Duckles

Becky Duckles, Project Arborist
ISA Certified Consulting Arborist #WE-0796A

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TREE #	SPECIES	TRUNK DIAMETER (Inches)	GENERAL HEALTH	STRUCTURAL INTEGRITY	COMMENTS/RECOMMENDATIONS/PROTECTED TREE?
1	Apple/ <i>Malus</i> sp.	Multiple < 3"	Fair/Good	Fair	Will be removed for construction. Not protected species
2	Coast Redwood/ <i>Sequoia sempervirens</i>	12,15"	Fair/Good	Fair	Will be removed for construction. Not protected size
3	Coast Redwood/ <i>Sequoia sempervirens</i>	17"	Fair	Good	Will be removed for construction. Not protected size
4	Coast Redwood/ <i>Sequoia sempervirens</i>	22"	Good	Good/Excellent	Will be removed for construction. Protected tree
5	Coast Redwood/ <i>Sequoia sempervirens</i>	24"	Good/Excellent	Good/Excellent	Will be removed for construction. Protected tree
6	Coast Redwood/ <i>Sequoia sempervirens</i>	26"	Good/Excellent	Good/Excellent	To be removed for construction. Roots destroying existing parking lot paving. Protected tree
7	Coast Redwood/ <i>Sequoia sempervirens</i>	17"	Fair/Good	Fair	To be removed for construction. Top died. Declining tree. Not protected size
8	Coast Redwood/ <i>Sequoia sempervirens</i>	20"	Good	Good	To be removed for construction. Roots destroying adjacent parking lot paving. Protected tree
9	Willow/ <i>Salix</i> sp.	14,17"	Fair	Fair	To be removed for construction. Not protected tree
10	Coast Redwood/ <i>Sequoia sempervirens</i>	21"	Good	Good	To be removed for construction. Roots destroying adjacent parking lot paving. Protected tree
11	Coast Redwood/ <i>Sequoia sempervirens</i>	23"	Good/Excellent	Good/Excellent	To be preserved. Roots damaging adjacent parking lot paving. Protected tree
12	Coast Redwood/ <i>Sequoia sempervirens</i>	17"	Fair/Good	Fair/Good	To be preserved. Roots damaging adjacent parking lot paving. Not protected size
13	Coast Redwood/ <i>Sequoia sempervirens</i>	3,5,7,8"	Fair	Fair	To be preserved. Not protected size
14	Coast Redwood/ <i>Sequoia sempervirens</i>	22"	Good/Excellent	Good/Excellent	To be preserved. Protected tree
15	Coast Redwood/ <i>Sequoia sempervirens</i>	13"	Fair	Fair	To be preserved. Not protected size
16	Coast Redwood/ <i>Sequoia sempervirens</i>	21"	Good	Good	To be preserved. Protected tree
17	Coast Redwood/ <i>Sequoia sempervirens</i>	24"	Good	Good	To be preserved. Protected tree
18	Coast Redwood/ <i>Sequoia sempervirens</i>	20"	Fair	Fair/Good	To be preserved. Has redwood canker (fungal disease). Protected tree
19	Coast Redwood/ <i>Sequoia sempervirens</i>	23"	Good/Excellent	Good/Excellent	To be preserved. Protected tree
20	Coast Redwood/ <i>Sequoia sempervirens</i>	22"	Good/Excellent	Good/Excellent	To be preserved. Protected tree
21	Coast Redwood/ <i>Sequoia sempervirens</i>	22"	Good	Fair/Good	To be preserved. Protected tree
22	Coast Redwood/ <i>Sequoia sempervirens</i>	12,23"	Fair/Good	Poor	To be preserved. Protected tree

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23	Coast Redwood/ <i>Sequoia sempervirens</i>	22"	Fair/Good	Fair/Good	To be preserved. Foliage sparse. Protected tree
24	Coast Redwood/ <i>Sequoia sempervirens</i>	20"	Good	Good	To be preserved. Protected tree
25	Coast Redwood/ <i>Sequoia sempervirens</i>	14"	Good	Good	To be preserved. Not a protected (size) tree
26	Coast Live Oak/ <i>Quercus agrifolia</i>	6"	Good	Good	To be preserved. Protected tree
27	Coast Redwood/ <i>Sequoia sempervirens</i>	19"	Fair/Good	Fair/Good	To be preserved. Protected tree
28	Coast Live Oak/ <i>Quercus agrifolia</i>	7"	Good	Fair/Good	To be preserved. Protected tree
29	Coast Redwood/ <i>Sequoia sempervirens</i>	19"	Good	Good	To be preserved. Protected tree
30	Strawberry Tree/ <i>Arbutus unedo</i>	5,6"	Fair	Fair	To be preserved. Not a protected tree
31	Box Elder/ <i>Acer negundo</i>	8,9"	Fair	Fair	To be preserved. Not a protected tree
32	Coast Redwood/ <i>Sequoia sempervirens</i>	16"	Good	Fair/Good	To be preserved. Not a protected (size) tree
33	Coast Redwood/ <i>Sequoia sempervirens</i>	16"	Good	Good	To be preserved. Not a protected (size) tree
34	Oregon Ash/ <i>Fraxinus latifolia</i>	6"	Good	Good	To be preserved. Not a protected tree
35	Coast Live Oak/ <i>Quercus agrifolia</i>	13"	Excellent	Excellent	To be preserved. Protected tree
36	Coast Redwood/ <i>Sequoia sempervirens</i>	13"	Good	Good	To be preserved. Not a protected (size) tree
37	Coast Redwood/ <i>Sequoia sempervirens</i>	13"	Good	Good	To be preserved. Not a protected (size) tree
38	Coast Redwood/ <i>Sequoia sempervirens</i>	13"	Fair/Good	Fair/Good	To be preserved. Not a protected (size) tree
39	Coast Live Oak/ <i>Quercus agrifolia</i>	8,10"	Good/Excellent	Good/Excellent	To be preserved. Protected tree
40	Coast Redwood/ <i>Sequoia sempervirens</i>	12"	Fair/Good	Fair/Good	To be preserved. Not a protected (size) tree
41	Coast Redwood/ <i>Sequoia sempervirens</i>	15"	Good/Excellent	Fair/Good	To be preserved. Not a protected (size) tree
42	Coast Live Oak/ <i>Quercus agrifolia</i>	3" @ 3', 12"	Good/Excellent	Good	To be preserved. Protected tree
43	Coast Live Oak/ <i>Quercus agrifolia</i>	5,6,7"	Excellent	Good	Co-dominant leaders (slightly weak attachment). To be preserved. Protected tree
44	Coast Redwood/ <i>Sequoia sempervirens</i>	21"	Good/Excellent	Good/Excellent	To be preserved. Protected tree
45	Oregon Ash/ <i>Fraxinus latifolia</i>	7"	Good/Excellent	Good/Excellent	To be preserved. Not a protected tree

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46	Laurel/ <i>Prunus lyonii</i>	Multiple < 3"	Good	Good/Excellent	Shrub. Not protected. To be removed for construction
47	Chinese pistache/ <i>Pistacia chinensis</i>	1 1/2"	Fair/Good	Fair/Good	To be removed for construction. Not protected
48	Chinese pistache/ <i>Pistacia chinensis</i>	1"	Good	Good	To be removed for construction. Not protected
49	Chinese pistache/ <i>Pistacia chinensis</i>	1"	Good	Good	To be removed for construction. Not protected
50	Chinese pistache/ <i>Pistacia chinensis</i>	1"	Fair/Good	Good	To be removed for construction. Not protected
51	Chinese pistache/ <i>Pistacia chinensis</i>	1"	Good	Good	To be removed for construction. Not protected
52	Chinese pistache/ <i>Pistacia chinensis</i>	1"	Good	Good	To be removed for construction. Not protected
53	Laurel/ <i>Prunus lyonii</i>	2,3"	Good	Good	To be removed for construction. Not protected
54	Chinese pistache/ <i>Pistacia chinensis</i>	1"	Good/Excellent	Good/Excellent	To be removed for construction. Not protected
55	Chinese pistache/ <i>Pistacia chinensis</i>	1 1/2"	Good	Good	To be removed for construction. Not protected
56	Chinese pistache/ <i>Pistacia chinensis</i>	1"	Good	Good	To be removed for construction. Not protected
57	Chinese pistache/ <i>Pistacia chinensis</i>	1"	Fair/Good	Good	To be removed for construction. Not protected
58	Chinese pistache/ <i>Pistacia chinensis</i>	1"	Good	Good	To be removed for construction. Not protected
59	Chinese pistache/ <i>Pistacia chinensis</i>	1"	Fair	Fair	To be removed for construction. Not protected
60	Holly Oak/ <i>Quercus ilex</i>	1"	Excellent	Excellent	To be removed for construction. Not protected
61	Canary Island Pine/ <i>Pinus canariensis</i>	1"	Fair	Fair	To be removed for construction. Not protected
62	Canary Island Pine/ <i>Pinus canariensis</i>	1"	Poor	Fair	To be removed for construction. Not protected
63	Canary Island Pine/ <i>Pinus canariensis</i>	3"	Good/Excellent	Good/Excellent	To be removed for construction. Not protected
64	Canary Island Pine/ <i>Pinus canariensis</i>	1 1/2"	Fair/Good	Good	To be removed for construction. Not protected
65	Canary Island Pine/ <i>Pinus canariensis</i>	3"	Good/Excellent	Good	To be removed for construction. Not protected
66	Canary Island Pine/ <i>Pinus canariensis</i>	3"	Fair/Good	Fair/Good	To be removed for construction. Not protected
67	Canary Island Pine/ <i>Pinus canariensis</i>	1"	Fair	Poor	To be removed for construction. Not protected
68	Canary Island Pine/ <i>Pinus canariensis</i>	1"	Fair	Fair	To be removed for construction. Not protected
69	Canary Island Pine/ <i>Pinus canariensis</i>	1,1,1"	Fair/Good	Poor	To be removed for construction. Not protected

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70	Canary Island Pine/ <i>Pinus canariensis</i>	3"	Good	Good/Excellent	To be removed for construction. Not protected
71	Canary Island Pine/ <i>Pinus canariensis</i>	2"	Fair/Good	Fair/Good	To be removed for construction. Not protected
72	Canary Island Pine/ <i>Pinus canariensis</i>	3"	Fair/Good	Good	To be removed for construction. Not protected
73	Canary Island Pine/ <i>Pinus canariensis</i>	3"	Fair/Good	Good	To be removed for construction. Not protected
74	Canary Island Pine/ <i>Pinus canariensis</i>	3"	Good	Good	To be removed for construction. Not protected
75	Canary Island Pine/ <i>Pinus canariensis</i>	2"	Good	Good/Excellent	To be removed for construction. Not protected
76	Canary Island Pine/ <i>Pinus canariensis</i>	1"	Fair	Fair/Good	To be removed for construction. Not protected
77	Canary Island Pine/ <i>Pinus canariensis</i>	3"	Good/Excellent	Good	To be removed for construction. Not protected
78	Canary Island Pine/ <i>Pinus canariensis</i>	3"	Good	Fair/Good	To be removed for construction. Not protected
79	Canary Island Pine/ <i>Pinus canariensis</i>	4"	Good	Fair/Good	To be removed for construction. Not protected
80	Canary Island Pine/ <i>Pinus canariensis</i>	2"	Fair/Good	Good	To be removed for construction. Not protected
81	Canary Island Pine/ <i>Pinus canariensis</i>	1"	Fair/Good	Fair	To be removed for construction. Not protected
82	Canary Island Pine/ <i>Pinus canariensis</i>	3"	Good	Good	To be removed for construction. Not protected
83	Canary Island Pine/ <i>Pinus canariensis</i>	3"	Fair/Good	Fair/Good	To be removed for construction. Not protected
84	Canary Island Pine/ <i>Pinus canariensis</i>	1"	Fair/Good	Poor	To be removed for construction. Not protected
85	Canary Island Pine/ <i>Pinus canariensis</i>	3"	Good/Excellent	Good/Excellent	To be removed for construction. Not protected
86	Canary Island Pine/ <i>Pinus canariensis</i>	3"	Good/Excellent	Good/Excellent	To be removed for construction. Not protected
87	Canary Island Pine/ <i>Pinus canariensis</i>	4"	Good/Excellent	Excellent	To be removed for construction. Not protected
88	Canary Island Pine/ <i>Pinus canariensis</i>	4"	Excellent	Excellent	To be removed for construction. Not protected
89	Canary Island Pine/ <i>Pinus canariensis</i>	3"	Good	Good/Excellent	To be removed for construction. Not protected
90	Canary Island Pine/ <i>Pinus canariensis</i>	3"	Good/Excellent	Good/Excellent	To be removed for construction. Not protected
91	Canary Island Pine/ <i>Pinus canariensis</i>	3"	Good	Good	To be removed for construction. Not protected

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TREE PROTECTION NOTES

1. Plastic or chain link (panels with feet) tree protection fencing should be installed at the driplines of trees to remain, (or the outer edge of the dripline of groups of trees). If it must be removed during construction for access, it should be replaced immediately after work is completed. Work done within fenced tree protection zones should be done under the supervision of a monitoring arborist.
2. Pruning should be the minimum necessary for hazard reduction or necessary access, (i.e. the removal of deadwood 2" and larger, etc.), pedestrian and vehicular clearance, and crown restoration. It should be done by trained, qualified tree workers according to ISA Pruning Guidelines & ANSI-300 standards, prior to construction activity and fencing.
3. Where drainage swales or utilities must pass within protected tree driplines, they should be hand dug or excavated under the supervision of an arborist. Roots 2" + should be preserved where possible, carefully exposing them and installing pipe or lines under them.
4. If any roots larger than 1" are encountered that cannot be preserved, they should be cut cleanly across the face of the root with a sharp saw.
5. Arbormulch (chipped wood, bark and foliage) generated from pruning and trees to be removed shall be spread under protected trees (kept 1' away from tree trunks) to serve as a permanent top dressing and mulch. It should be augmented as needed to provide a 4" layer of mulch within the driplines of all protected trees to remain within the limits of construction, and designated landscape areas. This mulch will not be used within the riverbanks or terraced areas.
6. No parking, storage or disposal of materials (such as concrete slurry, paint, etc.), or other construction activity shall occur within driplines of protected trees to remain.

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LIST of PROTECTED TREES TO BE REMOVED

July 14, 2022

This site in Petaluma is bordered on the north by Lakeville Highway, on the west by Adobe Creek and at the intersection of Fisher Drive and Cader Lane. Next to an existing large facility and parking areas and driveway there is a large undeveloped field with some trees along the borders. Most of the existing trees are planted, though there are a few native trees along the creek bank.

Construction of a new building and parking will require the removal of most of the small planted landscape trees and other ornamentals including coast redwoods which were planted at different times. Most of the trees along Adobe Creek will be preserved.

Based on the city of Petaluma's Tree Preservation Ordinance, chapter 17, trees to be removed are classified on this list (and in the accompanying tree inventory) as protected (or not). Protected trees which must be removed for construction are listed by number as shown on the Existing Conditions Exhibit by Steven J Lafranchi & Associates, Inc, dated 4-27-22, with diameter, species, and health/structure ratings. Mitigation for removed trees will be calculated by the project landscape architect, with replacements or in-lieu fees listed and shown on landscape plans.

Protected trees to be removed which require mitigation are:

<u>Number</u>	<u>Dia. at breast height</u>	<u>Species</u>	<u>Health/Structure (1-5, 5 highest)</u>	
4	22"	Coast redwood	2	2
5	24	Coast redwood	4	4
6	26	Coast redwood	4	4
8	20	Coast redwood	3	3
10	21	Coast redwood	3	3

