

APPENDIX B

Arborist Report

Kiely Arborist Services LLC

Certified Arborist WE#0476A

P.O. Box 6187

San Mateo, CA 94403

650-515-9783

May 8, 2018

Stotler Design Group
Attn: Mr. Scott Stotler
349 First Street
Los Altos, CA 94022

Site: 5150 El Camino Real, Los Altos, CA

Dear Mr. Stotler,

As requested on Monday, May 7, 2018, I visited the above site to inspect and comment on the trees. Construction is planned for this site and your concern as to the health and safety of the trees has prompted this visit.

Method:

All inspections were made from the ground; the trees were not climbed for this inspection. The trees in question were located on a to scale map provided by you. The trees were then measured for diameter at 48 inches above ground level (DBH or diameter at breast height). The trees were given a condition rating for form and vitality. The trees condition ratings are based on 50 percent vitality and 50 percent form, using the following scale.

1	-	29	Very Poor
50	-	69	Fair
70	-	89	Good
90	-	100	Excellent

The height of the trees was measured using a Nikon Forestry 550 Hypsometer. The spread was paced off. Comments and recommendations for future maintenance are provided.

Summary:

The trees on site are all imported trees with the exception of the coast live oak #6. The trees are all part of the landscape plan when the site was developed. The majority of the trees are in the parking lot in planting fingers. The health of the imported trees are in fair to good condition with the exception of the poor performing pines.

The pines are declining due to pine pitch canker and bark beetle and will eventually die. The years of drought, pitch canker and bark beetle has killed thousands of pines on the peninsula. The pines will be eventually be removed. The following tree protection plan will help to reduce impacts to the trees on site.

Tree Protection Plan:

Tree protection zones should be established and maintained throughout the entire length of the project. Fencing for the protection zones (near construction) should be 6-foot-tall metal chain link type supported by 2-inch diameter metal poles pounded into the ground to a depth of no less than 2 feet. The support poles should be spaced no more than 10 feet apart on center. The location for the tree protection fencing should be placed at the trees driplines where possible. Where not possible tree protection should be placed as close as possible to the proposed work while still allowing room for construction to safely continue. Signs should be placed on fencing signifying "Tree Protection Zone - Keep Out". No materials or equipment should be stored or cleaned inside the tree protection zones. When fencing needs to be reduced for access the unprotected area underneath the tree dripline should be protected by a landscape buffer. The trees in the landscape fingers should be wrapped with orange plastic fencing.

Landscape Buffer

Where tree protection does not cover the entire root zone of the trees, or when a smaller tree protection zone is needed for access, a landscape buffer consisting of wood chips spread to a depth of six inches with plywood or steel plates placed on top will be placed where foot traffic is expected to be heavy. The landscape buffer will help to reduce compaction to the unprotected root zone.

Tree Trimming

During construction any trimming will be supervised by the site arborist and must stay underneath 25% of the trees total foliage. At this time no tree trimming is proposed.

Root Cutting

Any roots to be cut should be monitored and documented. Large roots or large masses of roots to be cut should be inspected by the site arborist. The site arborist may recommend irrigation or fertilizing at that time. Cut all roots clean with a saw or loppers. Roots to be left exposed for a period of time should be covered with layers of burlap and kept moist.

Trenching and Excavation

Trenching for irrigation, electrical, drainage or any other reason, should be hand dug when beneath the dripline of desired trees. Hand digging and careful placement of pipes below or beside protected roots will dramatically reduce root loss, thus reducing trauma to desired trees. Trenches should be back filled as soon as possible using native materials and compacted to near original levels. Trenches to be left open with exposed roots shall be covered with burlap and kept moist. Plywood laid over the trench will help to protect roots below.

Irrigation

Only the imported trees on site will require supplemental irrigation. The native oak tree survives off of annual rainfall and does not need supplemental irrigation. Irrigating oaks during dry summer months increasing the trees risk of developing oak root fungus infections and should be avoided at all cost. The only time irrigation should be applied to an oak tree on site is if its root zone is traumatized or during the winter months if rainfall is sparse.

Inspections

The site will be inspected after the tree protection measures are installed and before the start of construction. The inspections will be documented with inspection letters being provided to the owner and contractor. Other inspections will be carried out on an as needed basis. It is the contractor's responsibility to notify the site arborist when construction is to start, and whenever there is to be work performed within the dripline of a protected tree on site at least 48 hours in advance. The contractor also must notify the site arborist when the excavation work is to take place in order to properly document the work. During the site visits the site arborist will offer mitigation measures specific to the work completed. Kielty Arborist Services can be reached at 650-515-9783(Kevin), 650-532-4418(David), or by email at kkarbor0476@yahoo.com

This information should be kept on site at all times. The information included in this report is believed to be true and based on sound arboricultural principles and practices.

Sincerely,

Kevin R. Kielty
Certified Arborist WE#0476A

David P. Beckham
Certified Arborist WE#10724A

5150 El Camino Real, Los Altos						
Tree #	Species	Botanical Name	DBH (inches)	Condition	Ht./ Spread	Comments
1	Monterey pine	<i>Pinus radiata</i>	7.5	45%	25/20	Fair vigor, Poor form, Leans northeast
2	Privet	<i>Ligustrum japonicum</i>	12.1	50%	25/25	Poor to fair vigor, Poor form, Poor crotches @ 4'
3	Monterey pine	<i>Pinus radiata</i>	21.4	55%	50/35	Fair vigor, Fair form, Tall for DBH
4	Privet	<i>Ligustrum japonicum</i>	5	45%	20/20	Poor to fair vigor, Poor form, In parking landscape finger
5	Monterey pine	<i>Pinus radiata</i>	24.1	45%	40/40	Poor to fair vigor, Poor form, Leans east, Bark beetles
6	Coast live oak	<i>Quercus agrifolia</i>	13.4	45%	35/30	Good vigor, Poor form, Leans east
7	Monterey pine	<i>Pinus radiata</i>	19.1	40%	40/35	Poor to fair vigor, Poor form, Bark beetles
8	Monterey pine	<i>Pinus radiata</i>	16.1	45%	40/35	Fair vigor, Poor form, Trunk bends east
9	Privet	genus <i>Ligustru</i>	8	55%	30/30	Fair vigor, Fair form, Codominant @ 6'
10	Monterey pine	<i>Pinus radiata</i>	15.4	40%	40/25	Fair vigor, Poor form, Topped in past
11	Monterey pine	<i>Pinus radiata</i>	13.9	45%	40/35	Poor to fair vigor, Poor form, Bends east
12	Monterey pine	<i>Pinus radiata</i>	15.1	35%	40/35	Poor to fair vigor, Poor form, Codominant @ 20', Poor crotch
13	Monterey pine	<i>Pinus radiata</i>	14.8	45%	40/30	Poor to fair vigor, Poor form, Codominant @ 20'
14	Monterey pine	<i>Pinus radiata</i>	21.6	50%	35/35	Fair vigor, Poor form, Leans southeast
15	Monterey pine	<i>Pinus radiata</i>	27.2	55%	50/45	Good vigor, Fair form, Restricted root zone
16	Monterey pine	<i>Pinus radiata</i>	17.1	45%	40/35	Poor to fair vigor, Poor form, Restricted root zone
17	Monterey pine	<i>Pinus radiata</i>	16.8	50%	40/35	Poor to fair vigor, Poor form, Restricted root zone
18	Monterey pine	<i>Pinus radiata</i>	13.9	45%	40/30	Poor vigor, Fair form, Restricted root zone
19	Monterey pine	<i>Pinus radiata</i>	24.8	55%	45/40	Fair vigor, Fair form, Restricted root zone
20	Monterey pine	<i>Pinus radiata</i>	26.6	55%	45/45	Fair vigor, Fair form, Heavy lateral limbs
21	Privet	<i>Ligustrum japonicum</i>	7.6	45%	20/20	Poor vigor, Fair form, in parking landscape finger
22	Carob	<i>Ceratonia siliqua</i>	18.8	60%	20/30	Good vigor, Fair form, Restricted root zone
23	Carob	<i>Ceratonia siliqua</i>	18.8	60%	20/30	Good vigor, Fair form, Restricted root zone
24	Carob	<i>Ceratonia siliqua</i>	11.6	55%	15/20	Good vigor, Fair form, Leans south
25	Carob	<i>Ceratonia siliqua</i>	7.8	60%	15/20	Good vigor, Fair form, Restricted root zone
26	Carob	<i>Ceratonia siliqua</i>	14.4	55%	15/20	Good vigor, Fair form, Restricted root zone, in parking landscape finger
27	London plane	<i>Platanus orientalis</i>	13.3	70%	35/40	Good vigor, Fair form, Codominant @ 10'
28	London plane	<i>Platanus orientalis</i>	11.6	65%	35/40	Good vigor, Fair form, Codominant @ 10'
29	London plane	<i>Platanus orientalis</i>	13.2	65%	35/25	Fair vigor, Fair form, Sycamore scale
30	London plane	<i>Platanus orientalis</i>	14.5	70%	35/25	Good vigor, Fair form, Sycamore scale
31	London plane	<i>Platanus orientalis</i>	10.8	55%	35/25	Fair vigor, Fair form, Roots cut for handicap ramp
32	London plane	<i>Platanus orientalis</i>	11.4	60%	35/30	Fair vigor, Fair form, Trunk bends southeast
33	London plane	<i>Platanus orientalis</i>	12.8	55%	35/30	Fair vigor, Fair form, Roots cut for sidewalk

Tree Survey

Tree #	Species	Botanical Name	DBH (inches)	Condition	Ht./ Spread	Comments
34	London plane	<i>Platanus orientalis</i>	12.6	55%	35/40	Fair vigor, Fair form, Spreading
35	London plane	<i>Platanus orientalis</i>	15.6	60%	35/40	Good vigor, Fair form, Heavy over bus stop
36	Chinese pistache	<i>Pistacia chinensis</i>	11.5	50%	30/30	Good vigor, Poor form, Leans southeast
37	London plane	<i>Platanus orientalis</i>	11.3	55%	35/30	Fair vigor, Fair form, Sycamore scale
38	London plane	<i>Platanus orientalis</i>	14.7	60%	35/40	Fair vigor, Fair form, Spreading
39	London plane	<i>Platanus orientalis</i>	11.8	55%	35/30	Fair vigor, Poor to fair form, Upright
40	Chinese pistache	<i>Pistacia chinensis</i>	8.5	45%	30/25	Good vigor, Poor form, Suppressed
41	Chinese pistache	<i>Pistacia chinensis</i>	10.2	60%	30/40	Good vigor, Fair form, Heavy over street
42	London plane	<i>Platanus orientalis</i>	13.5	60%	35/35	Fair vigor, Fair form, Tussock moth
43	London plane	<i>Platanus orientalis</i>	18.3	60%	35/40	Fair vigor, Fair form, Tussock moth
44	London plane	<i>Platanus orientalis</i>	13.1	60%	35/25	Fair vigor, Fair form, Tussock moth
45	London plane	<i>Platanus orientalis</i>	10.9	50%	40/30	Fair vigor, Poor to fair form, Leans northeast
46	London plane	<i>Platanus orientalis</i>	12.4	60%	35/35	Fair vigor, Fair form, Tussock moth
47	London plane	<i>Platanus orientalis</i>	11.4	55%	40/30	Fair vigor, Poor to fair form, Tall for DBH
48	London plane	<i>Platanus orientalis</i>	9.8	60%	35/30	Good vigor, Fair form, Heavy to south
49	London plane	<i>Platanus orientalis</i>	14.6	65%	40/35	Good vigor, Fair form, Heavy over parking
50	London plane	<i>Platanus orientalis</i>	20.4	65%	40/40	Good vigor, Fair form, Spreading canopy
51	London plane	<i>Platanus orientalis</i>	14.6	60%	40/40	Good vigor, Fair form, Spreading canopy
52	London plane	<i>Platanus orientalis</i>	15.9	60%	40/40	Good vigor, Fair form, Spreading canopy
53	London plane	<i>Platanus orientalis</i>	13.1	60%	35/35	Good vigor, Fair form, Spreading canopy
54	London plane	<i>Platanus orientalis</i>	12.3	55%	35/35	Fair vigor, Poor form, Trunk bends east
55	London plane	<i>Platanus orientalis</i>	16.4	60%	35/35	Fair vigor, Fair form, Roots cut for handicap ramp
56	Liquidambar	<i>Liquidambar styraciflua</i>	12.9	55%	45/35	Fair vigor, Poor form, Poor crotch @ 12'
57	Liquidambar	<i>Liquidambar styraciflua</i>	13.5	55%	45/35	Fair vigor, Poor form, Poor crotch @ 12'
58	London plane	<i>Platanus orientalis</i>	3.3	20%	20/15	Good vigor, Fair form, Newly planted
59	Liquidambar	<i>Liquidambar styraciflua</i>	11.4	55%	35/30	Good vigor, Poor to fair form, Spreading
60	Monterey pine	<i>Pinus radiata</i>	26	60%	45/40	Good vigor, Fair form, Restricted roots
61	Monterey pine	<i>Pinus radiata</i>	26	55%	45/40	Fair vigor, Fair form, Restricted root zone
62	Monterey pine	<i>Pinus radiata</i>	15	55%	40/40	Fair vigor, Fair form, Restricted root zone
63	Monterey pine	<i>Pinus radiata</i>	14	50%	35/30	Fair vigor, Poor form, Poor crotch @ 30'
64	Monterey pine	<i>Pinus radiata</i>	13	50%	30/30	Good vigor, Poor form, Heavy laterals
65	Monterey pine	<i>Pinus radiata</i>	16	55%	40/35	Fair vigor, Fair form, Pine pitch canker
66	Carob	<i>Ceratonia siliqua</i>	14.5	55%	25/30	Fair vigor, Poor to fair form, Restricted root zone
67	Carob	<i>Ceratonia siliqua</i>	19.9	60%	30/40	Good vigor, Fair form, Restricted root zone
68	Carob	<i>Ceratonia siliqua</i>	16.1	60%	30/40	Good vigor, Fair form, Restricted root zone
69	London plane	<i>Platanus orientalis</i>	10.5	65%	35/25	Good vigor, Fair form, Roots cut for sidewalk

Tree Survey

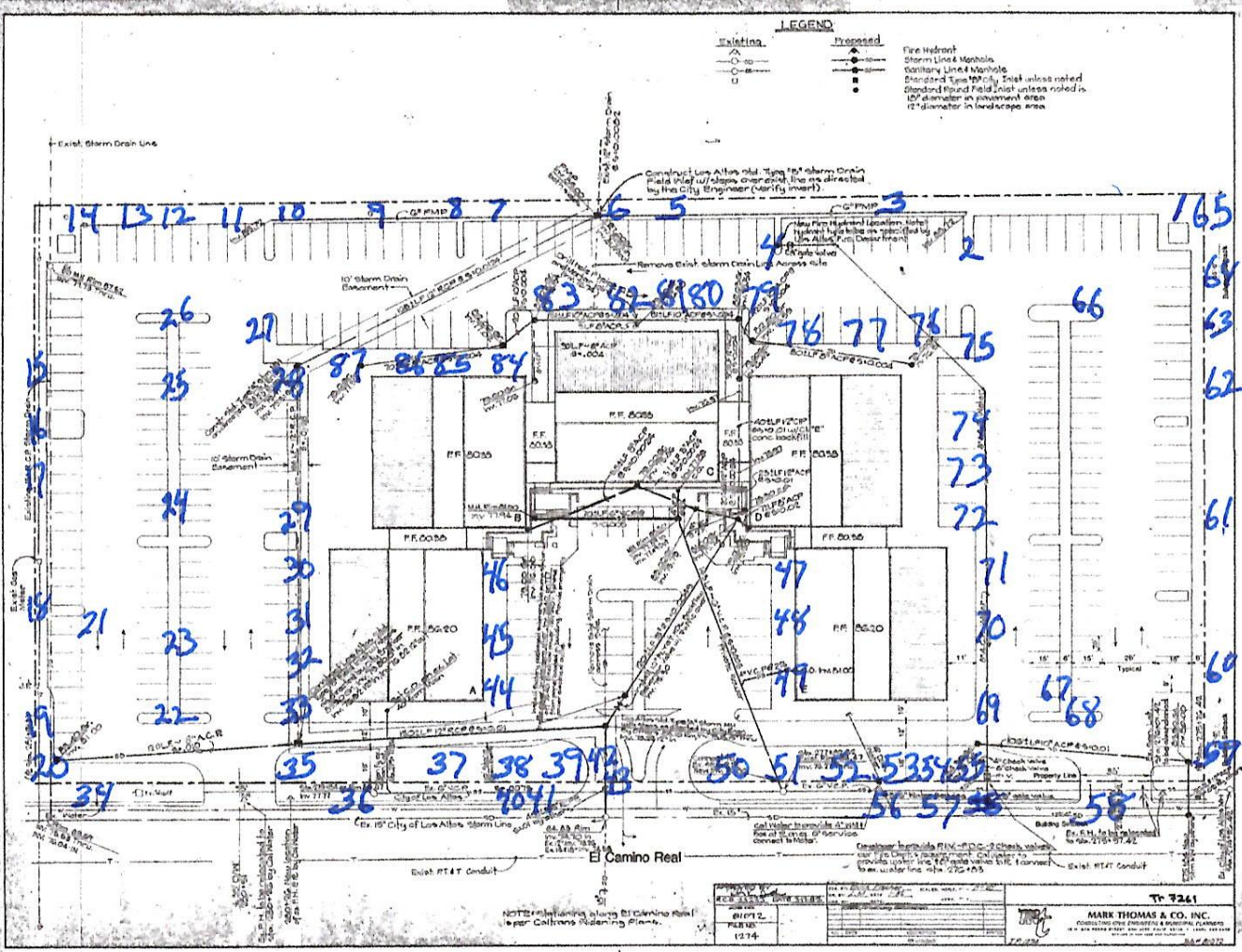
Tree #	Species	Botanical Name	DBH (inches)	Condition	Ht./ Spread	Comments
70	London plane	<i>Platanus orientalis</i>	8.8	65%	35/25	Good vigor, Fair form, Roots cut for sidewalk
71	London plane	<i>Platanus orientalis</i>	7.8	65%	35/25	Good vigor, Fair form, Roots cut for sidewalk
72	London plane	<i>Platanus orientalis</i>	10.4	65%	35/25	Fair vigor, Fair form, located top of slope
73	London plane	<i>Platanus orientalis</i>	8.6	65%	35/25	Fair vigor, Fair form, located top of slope
74	London plane	<i>Platanus orientalis</i>	9.5	60%	35/25	Fair vigor, Fair form, located top of slope
75	London plane	<i>Platanus orientalis</i>	10.2	65%	35/25	Fair vigor, Fair form, located top of slope
76	London plane	<i>Platanus orientalis</i>	9.9	60%	35/25	Fair vigor, Fair form, located top of slope
77	London plane	<i>Platanus orientalis</i>	10.7	60%	35/25	Fair vigor, Fair form, located top of slope
78	London plane	<i>Platanus orientalis</i>	9.2	60%	35/25	Fair vigor, Fair form, Sycamore scale
79	London plane	<i>Platanus orientalis</i>	7.3	65%	30/30	Fair vigor, Fair form, Sycamore scale
80	London plane	<i>Platanus orientalis</i>	9.3	60%	35/30	Fair vigor, Poor form, Poor live crown ratio
81	London plane	<i>Platanus orientalis</i>	9.1	60%	35/30	Fair vigor, Poor form, Poor live crown ratio
82	London plane	<i>Platanus orientalis</i>	8.3	60%	35/30	Fair vigor, Poor form, Poor live crown ratio
84	London plane	<i>Platanus orientalis</i>	8.4	55%	35/25	Fair vigor, Poor form, Trunk bends
85	London plane	<i>Platanus orientalis</i>	11.1	65%	40/35	Good vigor, Fair form, Multi @ 20"
86	London plane	<i>Platanus orientalis</i>	11.4	55%	40/30	Fair vigor, Poor to fair form, Tussock moth
87	London plane	<i>Platanus orientalis</i>	10.2	55%	40/30	Fair vigor, Poor to fair form, Mildew

LEGEND

Existing

Proposed

- Fire Hydrant
- Storm Line & Manhole
- Sanitary Line & Manhole
- Standard Type 10 City Inlet unless noted
- Standard Round Field Inlet unless noted as 18" diameter in pavement area
- 12" diameter in landscape area



Los Altos Office Condominiums

Owen Development Company

Date: Homburger & Worsell

1985 Civil Engineer Seal

UNDERGROUND UTILITIES

Scale in feet

North Arrow

PROJECT INFORMATION

MARK THOMAS & CO., INC. CONSULTING ENGINEERS