



Mayne Tree Expert Company, Inc.

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CERTIFIED FORESTER • CERTIFIED ARBORISTS • PEST CONTROL • ADVISORS AND OPERATORS

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November 30, 2009

Ms. Danielle Paye
761 Partridge Ave.
Menlo Park, CA 94025

Dear Ms. Paye,

RE: 220 FELTON DRIVE, MENLO PARK

I have completed the root probing. The purpose was to explore the soil along the curved concrete pad at the easterly end of the pool (see diagram). This end of the pool is being uplifted and cracked, as is the concrete path along the lawn and patio. The pool cover housing and mechanism has been dislodged and broken.

Knowing how many redwood roots there are, and their depth, growing toward the pool, will help to determine tree impacts from pool repair. This, along with how much over excavation to repair existing damages and to help prevent future damage will also aid our decision and/or recommendations.

Procedure

I used a slap hammer-type 47-inch steel rod and probed down every six inches along the concrete pad (see diagram). The rod was pounded down its full length or until it hit a root. Each depth was noted, along with any pertinent information.

Roots were hit at 29 of the 48 sites; roughly 60 percent of the sites had roots. Seventeen of the sites had roots above and eight of these were above 12 inches. Sites where the probe glanced along a root were not noted so actually there are more than 29 roots.

I also probed down at 1 foot intervals along the concrete lawn edging. Roots were hit at 11 of 19 sites, for a 57 percent hit ratio. The hits from each area combined equal 40 hits at 67 sites, which is about a 60 percent hit ratio.

Conclusions

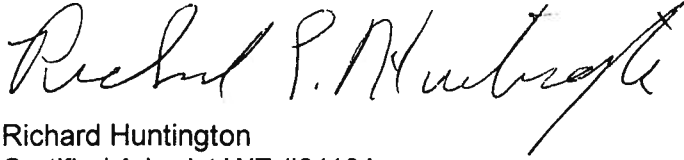
To repair damage to the pool, the cover, the mechanism, the surrounding concrete, and over excavation to remove or shave roots near the pool wall, etc., at least 29 roots over one inch will need cutting. This is a very conservative number, as several large roots and small roots were not directly encountered.

In my opinion, tree #1 will loose at least 35 percent of its roots directly during pool repair and more during over excavation. Tree #2 will loose about 45 percent of its roots. Tree #3 could loose 50 percent of its roots during concrete edge and patio repair.

Due to expected root loss, I recommend removal of the three trees addressed in this report. The potential damage to the new house at 218 Felton Drive is too great to allow retention of the trees.

I think this report is accurate and based on sound arboricultural principles and practices.

Sincerely,



Richard Huntington
Certified Arborist WE #0119A
Certified Forester #1925

RLH:pmd



Root Probes
Trees #1 & #2

Site #	Depth to Root (inches)	Comments
1	25	
2	20	
3	22.5	
4	40	
5	47	
6	47	
7	37.5	
8	18.5	
9	47	
10	30	
11	1	Next to irrigation head.
12	1	
13	47	
14	34.5	
15	37.5	
16	39	
17	10.5	
18	12	
19	12.5	
20	11.5	Next to irrigation emitter.
21	11.5	
22	47	
23	47	
24	47	
25	47	
26	47	
27	11	
28	47	
29	47	At top of arch.
30	47	
31	47	

Root Probes
Trees #1 & #2

Site #	Depth to Root (inches)	Comments
32	47	
33	47	
34	47	
35	43	
36	18.5	Near irrigation emitter.
37	47	
38	47	
39	29	
40	42	
41	16	
42	12	
43	16	Next to irrigation head.
44	16	Next to irrigation head.
45	47	
46	25	
47	4	
48	16	

Root Probes
Trees #2 & #3

Site #	Depth to Root (inches)	Comments
1	27	
2	47	
3	10	
4	5	
5	4	
6	47	
7	8.5	
8	47	
9	47	At crack.
10	2	Towards crack.
11	47	
12	6.5	Middle of tree.
13	23.5	
14	5	
15	6	South edge of tree.
16	47	
17	18	
18	13.5	
19	16	

