Tree Resource Evaluation for

The South Seas, Richmond, and Raleigh Hotels, Miami Beach

Prepared for:

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April 4, 2020

Summary

I performed a tree resource evaluation on the properties located south of 18th Street and east of Collins Avenue, Miami Beach also known as the South Seas, Richmond, and Raleigh Hotels on March 24th & 25th, 2020. The approximate locations of these trees and palms can be found on the schematic in Appendix B.

The evaluation in Appendix A includes measurements, condition rating and recommended radius of the tree and palm protection zone (TPZ) which is also the CRZ unless noted otherwise for each tree and palm.

I rate trees and palms in accordance with ANSI A300 (Part 5) – 2005, Annex A, Management Report Information. Trees and palms are rated Good, Moderate or Poor, see Appendix C. I recommend the removal of trees or palms that I rate as Poor.

I also followed the Levels and Scope of Tree Risk Assessment from the ANSI A300 Part 9- 2017: Levels of tree risk assessment; Level 1 limited visual tree risk assessment, Level 2 basic tree risk assessment, and Level 3 advanced tree risk assessment. The scope of this report/evaluation was limited to a Level 2 Assessment for all trees and palms onsite.

To perform all measurements I used a forestry diameter measuring tape and a measuring wheel. I rounded-off to the nearest inch when measuring trunk diameter, heights and canopy diameters are approximate. Canopy diameter is measured in one direction.

Appendix D contains the ANSI A300 definitions of Tree Protection Zone (TPZ) and Critical Root Zone (CRZ). The TPZs that I have assigned to the trees and palms on this site are sufficient to maintain CRZs as well as the TPZs. These measurements are radius measured from the outside of the trunk.

It is important to note that when structures are next to, or had previously been next to trees, there may be no roots from that tree underneath the foot print of the structure and therefore the CRZ can change. This can be determined by monitoring demolition or via air-spading.

A note on the large number of traveller's trees onsite

The traveller's trees onsite are very densely grown-in together, in many areas they appear as a hedge; being a multi-trunked plant, it is difficult to distinguish between individual plants. The DBH on many of these plants is estimated.

Traveller's trees, *Ravenala madagascariensis,* is not a true tree or palm species.

Photos below

The color and brightness on some photos has been adjusted to provide contrast and clarity to the subject matter. This follows the Basic section on Enhancement Techniques found in Section 11, Best Practices for Documenting Image Enhancement in a document produced by SWGIT Scientific Working Group Imaging Technology, www.SWGIT.org. All photos taken by me.

A note on the condition of palms onsite

Almost all of the palms that are rated as moderate have holes in their trunks made by climbing spikes. This is a practice that is not allowed in the ANSI A-300 Pruning Standards or the ISA Best Management Practices. These palms should not be relocated. Palms that I have rated as poor and any other palms onsite that have holes in the trunks that are oozing should be removed as this can be an indication of imminent failure.

Photo 1 above is palms 1, 2, 3 & 4.

Photo 2 above is palms 3, 4, 8 & 163.

Photo 3 above is palms 5, 6 & 7.

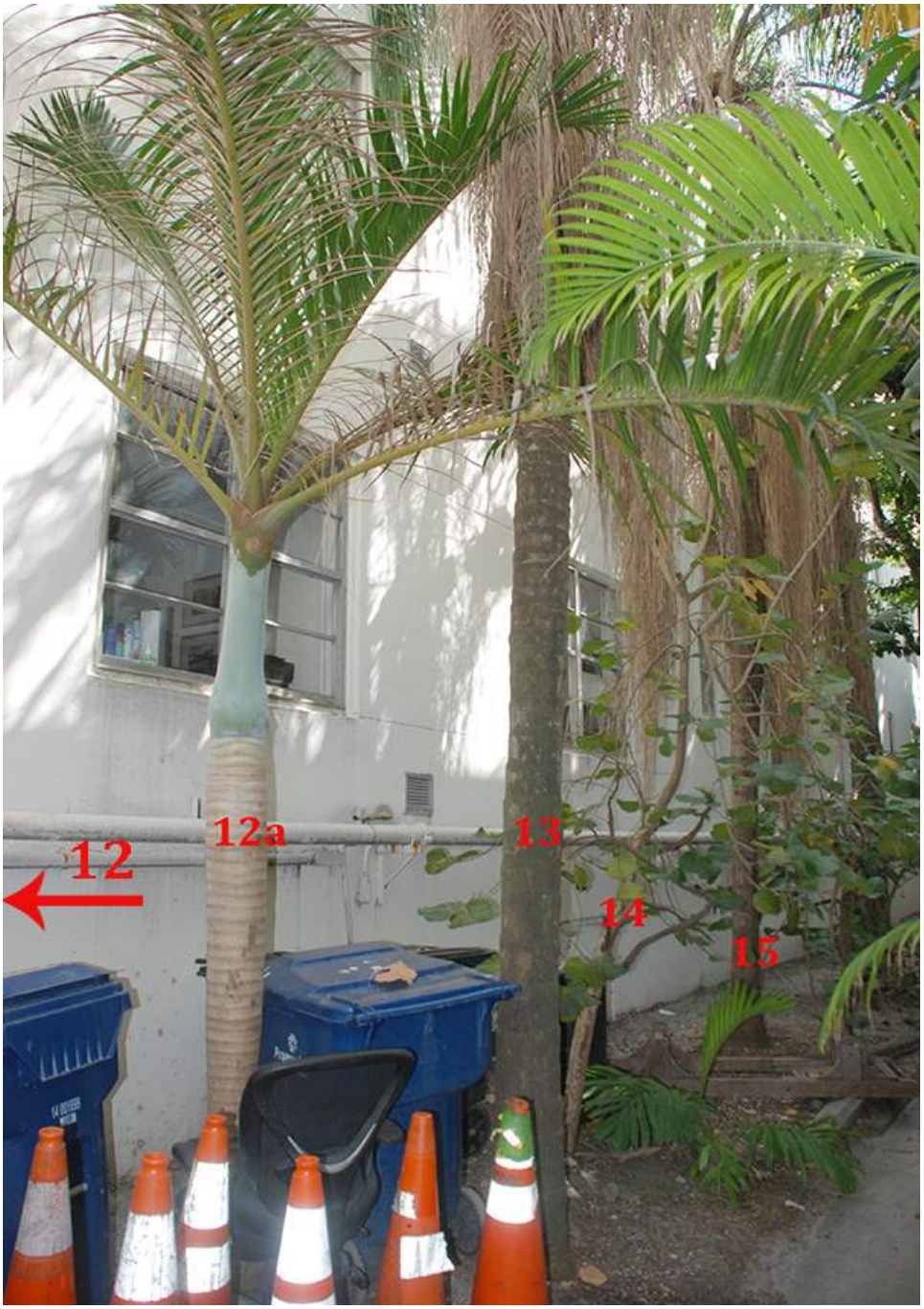


Photo 4 above is palms 21a, 13 & 15 and trees 14 & 15. Palm 12 is out of the photo to the left. All of the queen palms along this building have poor trunk taper and are beginning to pin/narrow.

Photo 5 above is palms 15 & 18 and trees 16 & 17.

Photo 6 above is the cracked trunk of palm 18.

Photo 7 above is trees 20 & 21. These trees are very tall and have poor trunk taper. They are not good candidates for relocation.

Photo 8 above is trees 22, 22a & 23.

Photo 9 above is the canopy of tree 23. The trunks have very poor taper and the canopy has been over-pruned. This tree is not good candidate for relocation.

Photo 10 above is tree 24 and palms 25 & 26. The Norfolk Island Pine indicated with the arrow is too small to document. The DBH is less than 2 inches.

Photo 11 above is the canopy of tree 24 showing very poor trunk taper and an overly pruned canopy. This tree is not good candidate for relocation.

Photo 12 above is palms 25, 26 & 27.

Photo 13 above is palms 27 & 30 and trees 29 & 31.

Photo 14 above is trees 31, 32 & 33a with very poor branch structure.

Photo 15 above is palm 33 and tree 33a.

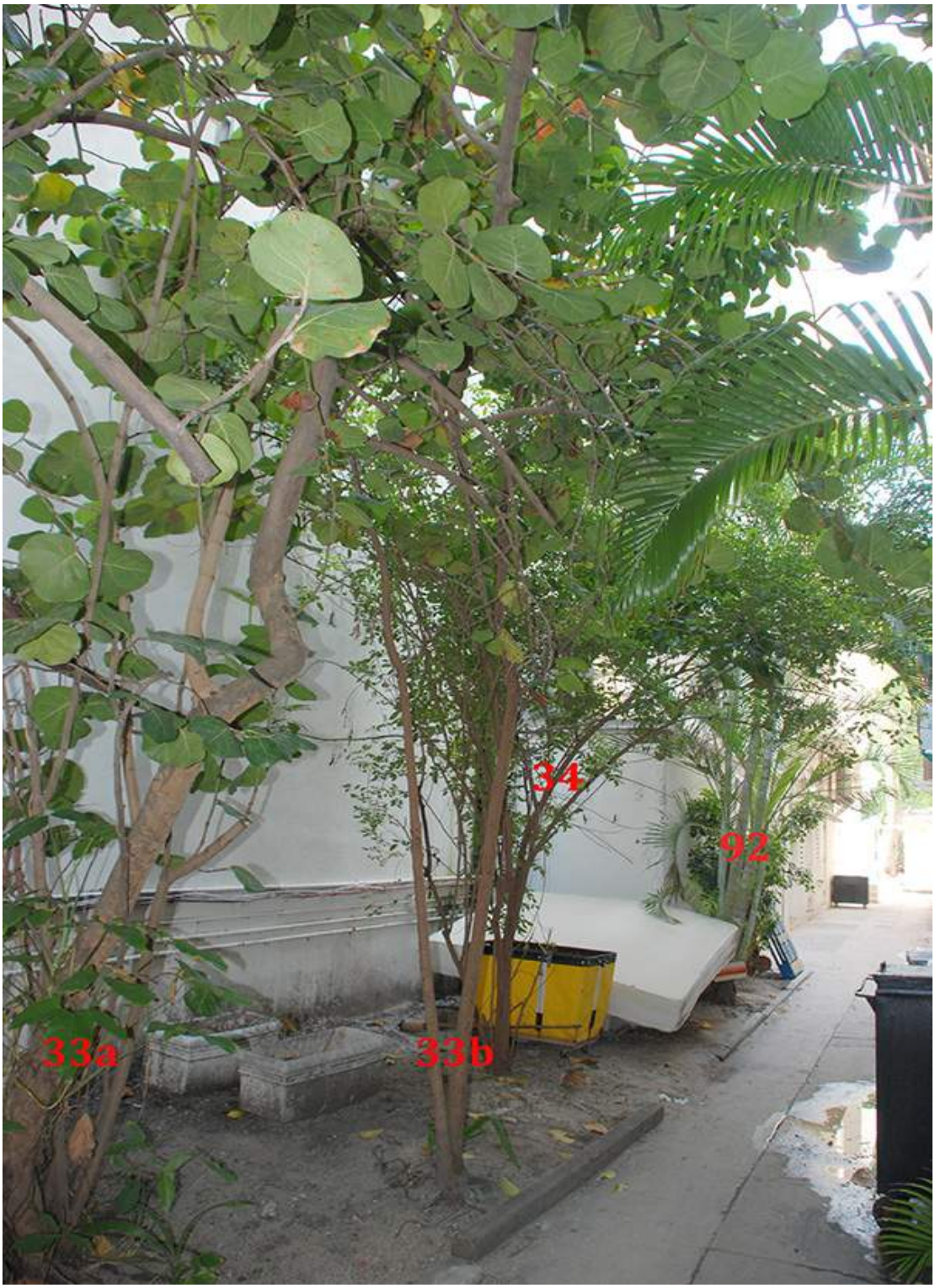


Photo 16 above is trees 33a, 33b, 34 (an invasive species) and palm 92.

Photo 17 above is palms 37, 38, 94, 95 & 96.

Photo 18 above is palms 38, 39, 40, 41, 91 & 92.

Photo 19 above is palms 41 & 42.

Photo 20 above is palms 43 & 44.

Photo 21 above is palms 44, 45, 46 & 101.

Photo 22 above is palms 45 & 46.

Photo 23 above is the damaged trunk of palm 46. These darkened and oozing spots are holes made by climbing spikes. This palm should be removed.

Almost all of the palms that are rated as moderate have holes in their trunks made by climbing spikes. These palms should not be relocated. If the trunks are oozing, they should be removed.

Photo 24 above is palms 61, 62, 63 & 64.

Photo 25 above is palms 65, 66 & 67.

Photo 26 above is palms 78, 79, 80 & 82.

Photo 27 above is palms 81 & 83.

Photo 28 above is palms 84, 84a & 85.

Photo 29 above is palms86 & 87.

Photo 30 above is palms 87, 88 & 89.

Photo 31 above is palms 90 & 91.

Photo 32 above is palm 92.

Photo 33 above is palms 93 through 99.

Photo 34 above is palms 96 through 100.

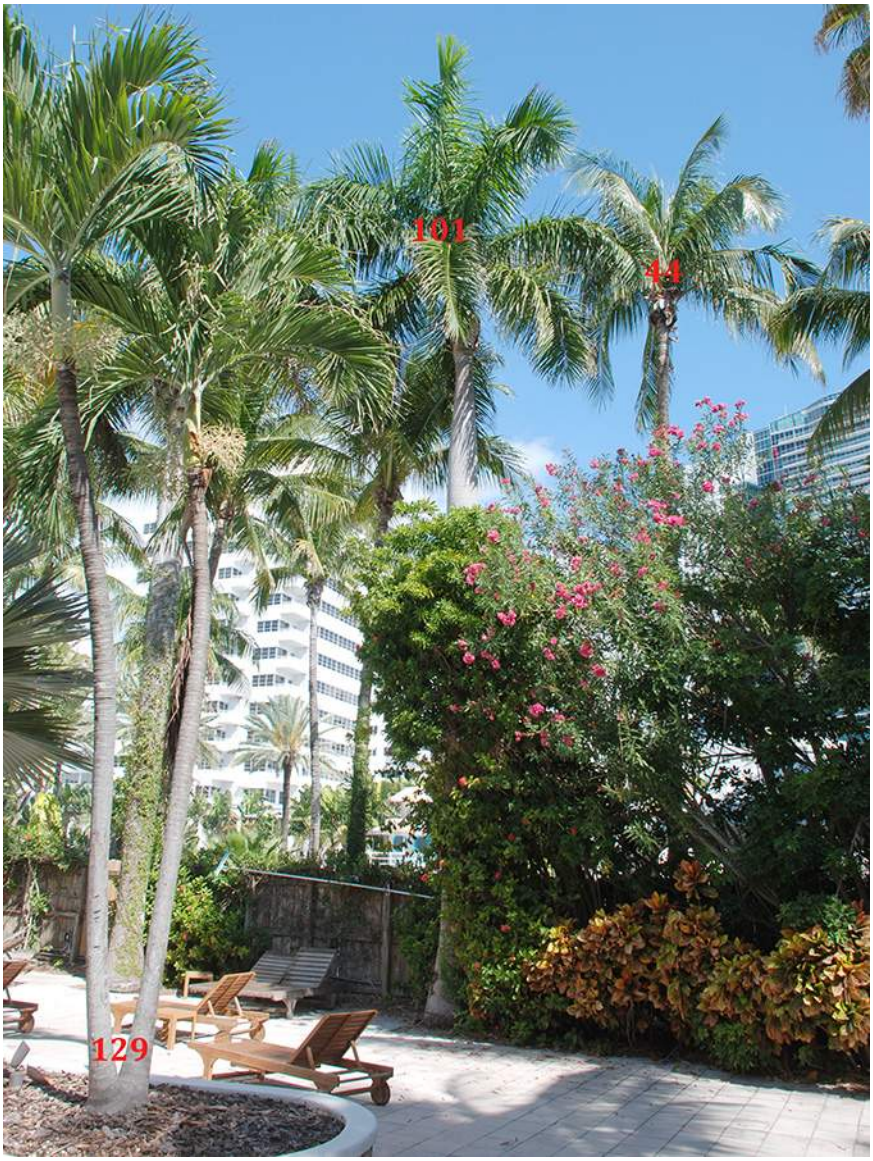


Photo 35 above is palms 44, 101 & 129.

Photo 36 above is palms 44, 45, 402 & 107.

Photo 37 above is palms 129, 130 & 130a.

Photo 38 above is palms 131 through 138.

Photo 39 above is palms 142 through 145.

Photo 40 above is palms 93, 144 & 145.

Photo 41 above is palms 167 through 170.

Photo 42 above is traveller's tree 210 w. The traveller's trees onsite are very densely grown in together and being a multi-trunked plant, very often it is very difficult to distinguish between individual plants

Photo 43 above is palms 10, 11, 12, 172 & 173.

Photo 44 above is palms 174 & 174a.

Photo 45 above is palm 174a & 174b.

Photo 46 above is trees 178 & 178a.

Photo 47 above is the south side of tree 190. The circles indicate significantly decayed areas with dead wood. This tree should not be considered for relocation.

Photo 48 above is tree 191.

Photo 49 above is tree 193. See following photo.

Photo 50 above is the north side of the trunk of tree 193 with the circles indicating large cavities with decay. This tree should not be considered for relocation.

Photo 51 above is palm 194.

Photo 52 above is tree 195 with significant decay indicated. This tree should not be considered for relocation.

Photo 53 above is trees 193, 195 & 196.

Photo 54 above is tree 197 & palm 197a.

Photo 55 above is palms 198, 199, 200, 213, 214, 215 & 216.

Photo 56 above is trees 198a through 198f.

Photo 57 above is trees 198g through 198j.

Photo 58 above is palm 201 and traveller's trees 202 & 203.

Photo 59 above is traveller's trees 203c through 203 i.

Photo 60 above is trees 204 & 205 and palm 202. These trees should not be considered for relocation.

Photo 61 above is palms 207 through 210.

Photo 62 above is traveller's trees 210a through 210e.

Photo 63 above is traveller's trees 210f through 210h.

Photo 64 above is traveller's trees 210i through 210w.

Photo 65 above is palms 211, 212, 216, 218 & 218a. These coconut palms have been recently transplanted to these locations. They may need better irrigation.

Photo 66 above is palms 217 & 218. See following photo.

Photo 67 above are two man-made holes in the trunk of palm 217. This palm should be removed.

Photo 68 above is tree 219 which has failed. This tree should be removed. See following photo.

Photo 69 above is the over-trunked root plate of tree 219.

Photo 70 above is palms R1, R2, R3 & R8.

Photo 71 above is palms R1, R2 & R3. Note the canopy of tree 190 in the background.

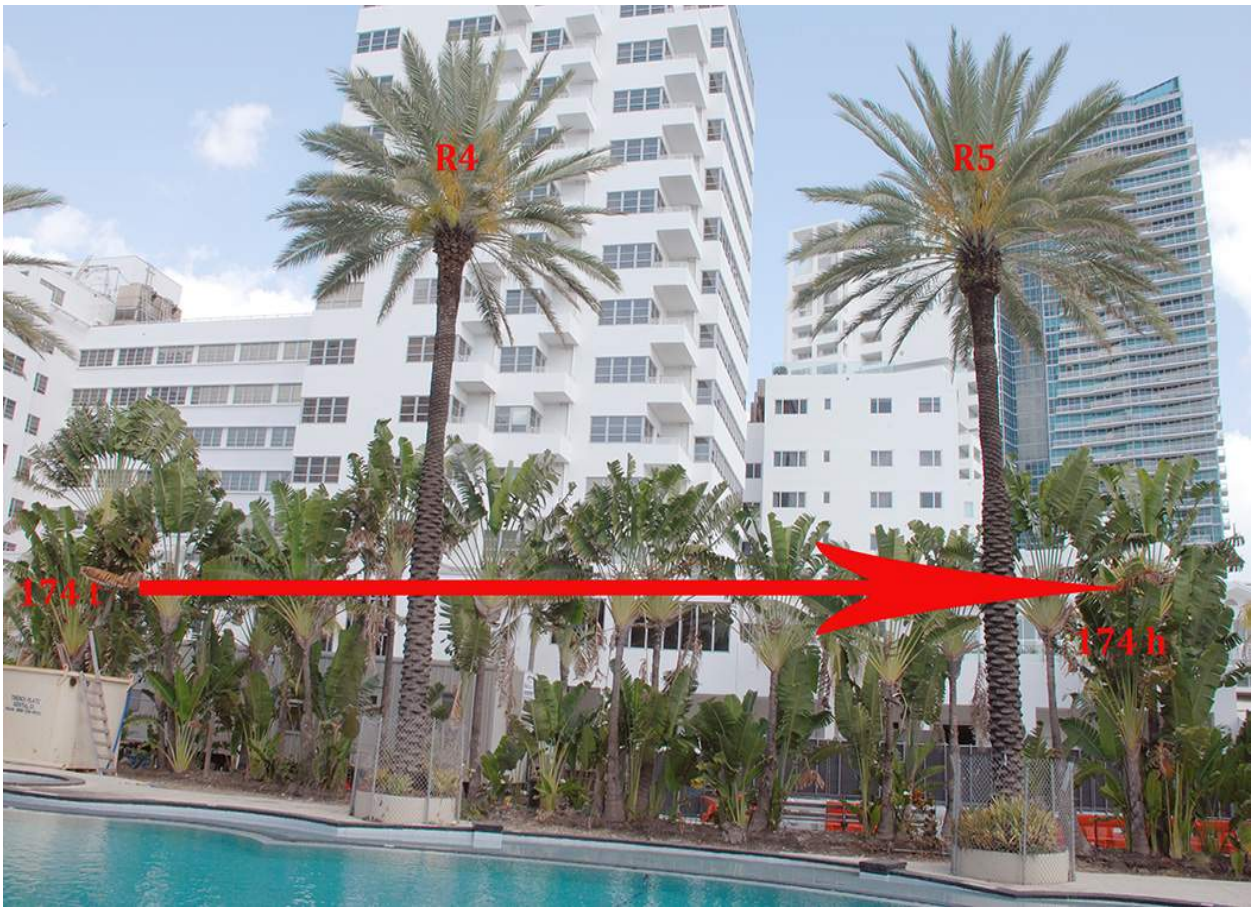


Photo 72 above is palms R4 & R5 with traveler's trees 174h through 174t indicated.

Photo 73 above is palms R5 & R6 and traveler's trees 174c through 174h.

Photo 74 above is palms R7 & R8.

Appendix – A – Measurements and condition rating

	Scientific name	Common name	DBH	H/Ct	Canopy	Condition	TPZ
1	Washingtonia filifera	Washingtonia palm	12"	35'	18'	Good	5'
2	Washingtonia filifera	Washingtonia palm	12"	30'	18'	Good	5'
3	Washingtonia filifera	Washingtonia palm	14"	30'	18'	Good	5'
4	Washingtonia filifera	Washingtonia palm	14"	35'	16'	Good	5'
5	Ptychosperma elegans	Solitare palm	5"	26'	14'	Poor	3'
6	Ptychosperma elegans	Solitare palm	6"	28'	10'	Poor	3'
7	Ptychosperma elegans	Solitare palm	7"	30'	18'	Poor	3'
8	Washingtonia filifera	Washingtonia palm	9"	30'	18'	Poor	3'
9	Cocos nucifera	Coconut palm	9"	28'	20'	Moderate	5'
10	Cocos nucifera	Coconut palm	10"	40'	34'	Moderate	5'
11	Cocos nucifera	Coconut palm	8"	40'	34'	Moderate	5'
12	Ptychosperma elegans	Solitare palm	12"	30'	20'	Moderate	4'
12a	Hyophorbe verschaffeltii	Spindle palm	8"	6'	18'	Good	3'
13	Syagrus romanzoffiana	Queen palm	9"	28'	36'	Moderate	4'
14	Coccoloba uvifera	Seagrape	3"	28'	12'	Poor	4'
15	Syagrus romanzoffiana	Queen palm	7"	25'	36'	Moderate	4'
16	Coccoloba uvifera	Seagrape	3"	14'	12'	Poor	3'
17	Coccoloba uvifera	Seagrape	2"	14'	8'	Poor	3'
18	Syagrus romanzoffiana	Queen palm	9"	26'	36'	Poor	4'
19	Not onsite						
20	Manilkara sapota	Sapodilla	11"	40'	30'	Moderate	15'
21	Manilkara sapota	Sapodilla	10"	40'	35'	Moderate	15'
22	Ficus binnendijkii		4"	18'	18'	Poor	3'
22a	Manilkara sapota	Sapodilla	2"	16'	10'	Good	3'
23	Coccoloba uvifera	Seagrape	37"	40'	40'	Moderate	18'
24	Bursera simaruba	Gumbo limbo	16"	45'	30'	Moderate	18'
25	Syagrus romanzoffiana	Queen palm	8"	22'	18'	Poor	4'
26	Syagrus romanzoffiana	Queen palm	6"	28'	28'	Moderate	4'
27	Syagrus romanzoffiana	Queen palm	10"	30'	28'	Moderate	4'
28	Adonidia merrillii	Christmas palm	3"	7'	14'	Moderate	4'
29	Coccoloba uvifera	Seagrape	2"	10'	12'	Poor	3'
30	Syagrus romanzoffiana	Queen palm	8"	28'	28'	Poor	4'
31	Coccoloba uvifera	Seagrape	16"	26'	20'	Poor	5'
32	Coccoloba uvifera	Seagrape	4"	26'	18'	Poor	6'
33	Syagrus romanzoffiana	Queen palm	7"	26'	18'	Poor	4'
33a	Coccoloba uvifera	Seagrape	5"	18'	25'	Poor	4'
33b	Coccoloba uvifera	Seagrape	3"	22'	18'	Poor	4'
34	Schinus terebinthifolius	Brazilian pepper	4"	16'	25'	Invasive	
35	Not on survey						

36	Not on survey						
37	Cocos nucifera	Coconut palm	9"	30'	34'	Moderate	5'
38	Cocos nucifera	Coconut palm	8"	28'	26'	Moderate	5'
39	Cocos nucifera	Coconut palm	9"	32'	38'	Moderate	5'
40	Cocos nucifera	Coconut palm	9"	8'	26'	Good	5'
41	Cocos nucifera	Coconut palm	9"	32'	38'	Moderate	5'
42	Cocos nucifera	coconut palm	12"	28'	36'	Moderate	5'
43	Cocos nucifera	Coconut palm	7"	26'	26'	Moderate	5'
44	Cocos nucifera	Coconut palm	8"	38'	36'	Moderate	5'
45	Cocos nucifera	Coconut palm	8"	35'	34'	Moderate	5'
46	Cocos nucifera	Coconut palm	8"	13'	36'	Poor	5'
52	Cocos nucifera	Coconut palm	11"	30'	36'	Moderate	5'
53	Cocos nucifera	Coconut palm	12"	30'	36'	Moderate	5'
54	Cocos nucifera	Coconut palm	10"	30'	36'	Moderate	5'
61	Adonidia merrillii	Christmas palm	10"	18'	20'	Good	4'
61a	Cocos nucifera	Coconut palm	8"	22'	28'	Good	5'
62	Adonidia merrillii	Christmas palm	6"	16'	10'	Good	4'
62a	Cocos nucifera	Coconut palm	8"	22'	28'	Good	5'
63	Adonidia merrillii	Christmas palm	10"	15'	22'	Good	4'
64	Adonidia merrillii	Christmas palm	6"	15'	15'	Good	4'
65	Adonidia merrillii	Christmas palm	11"	20'	28'	Good	4'
66	Adonidia merrillii	Christmas palm	11"	17'	28'	Good	4'
67	Adonidia merrillii	Christmas palm	10"	18'	22'	Good	4'
67a	Cocos nucifera	Coconut palm	8"	35'	34'	Moderate	5'
68	Roystonea regia	Royal palm	14"	13'	24'	Good	5'
69	Cocos nucifera	Coconut palm	9"	28'	36'	Good	5'
78	Cocos nucifera	Coconut palm	7"	32'	30'	Good	5'
79	Cocos nucifera	Coconut palm	7"	5'	30'	Good	5'
80	Cocos nucifera	Coconut palm	11"	30'	30'	Good	5'
81	Cocos nucifera	Coconut palm	8"	10'	26'	Good	5'
82	Cocos nucifera	Coconut palm	9"	32'	30'	Good	5'
83	Cocos nucifera	Coconut palm	8"	26'	24'	Good	5'
84	Cocos nucifera	Coconut palm	8"	28'	26'	Good	5'
84a	Cocos nucifera	Coconut palm	16"	35'	36'	Good	5'
85	Cocos nucifera	Coconut palm	10"	30'	26'	Good	5'
86	Cocos nucifera	Coconut palm	14"	35'	36'	Good	5'
87	Cocos nucifera	Coconut palm	10"	30'	34'	Good	5'
88	Ravenala madagascariensis	Traveller's tree	8"	7'	30'	Good	4'
89	Cocos nucifera	Coconut palm	8"	26'	30'	Good	5'
90	Cocos nucifera	Coconut palm	7"	8'	24'	Moderate	5'
91	Cocos nucifera	Coconut palm	9"	28'	22'	Moderate	5'
92	Dypsis lutescens	Areca palm	11"	12'	24'	Poor	3'

93	Adonidia merrillii	Christmas palm	10"	18'	22'	Good	4'
94	Roystonea regia	Royal palm	14"	20'	22'	Good	5'
95	Roystonea regia	Royal palm	16"	35'	34'	Good	5'
96	Roystonea regia	Royal palm	17"	28'	32'	Good	5'
97	Roystonea regia	Royal palm	14"	26'	26'	Good	5'
98	Roystonea regia	Royal palm	18"	24'	26'	Good	5'
99	Roystonea regia	Royal palm	18"	28'	28'	Good	5'
100	Roystonea regia	Royal palm	17"	28'	28'	Good	5'
101	Roystonea regia	Royal palm	15"	28'	32'	Good	5'
102	Washingtonia filifera	Washingtonia palm	11"	38'	18'	Moderate	5'
107	Cocos nucifera	Coconut palm	6"	26'	32'	Moderate	5'
129	Adonidia merrillii	Christmas palm	5"	14'	24'	Good	4'
130	Adonidia merrillii	Christmas palm	6"	15'	10'	Good	4'
130a	Latania loddigesii	Blue latan palm	7"	6'	18'	Moderate	4'
131	Adonidia merrillii	Christmas palm	10"	14'	26'	Good	4'
132	Adonidia merrillii	Christmas palm	10"	16'	32'	Good	4'
133	Roystonea regia	Royal palm	16"	27'	36'	Good	5'
134	Adonidia merrillii	Christmas palm	8"	15'	20'	Moderate	4'
135	Roystonea regia	Royal palm	13"	24'	32'	Good	5'
136	Adonidia merrillii	Christmas palm	5"	15'	10'	Good	4'
137	Ravenala madagascariensis	Traveller's tree	7"	6'	38'	Good	4'
137a	Adonidia merrillii	Christmas palm	10"	15'	20'	Moderate	4'
138	Roystonea regia	Royal palm	13"	16'	18'	Moderate	5'
139	Ravenala madagascariensis	Traveller's tree	45"	28'	30'	Good	5'
140	Adonidia merrillii	Christmas palm	11"	16'	40'	Good	4'
141	Roystonea regia	Royal palm	13"	24'	32'	Moderate	5'
142	Roystonea regia	Royal palm	15"	18'	22'	Poor	5'
143	Adonidia merrillii	Christmas palm	5"	8'	12'	Good	4'
144	Roystonea regia	Royal palm	14"	25'	28'	Good	5'
145	Adonidia merrillii	Christmas palm	5"	14'	15'	Good	4'
162	Washingtonia filifera	Washingtonia palm	12"	26'	18'	Moderate	5'
163	Cocos nucifera	Coconut palm	8"	35'	25'	Moderate	5'
167	Cocos nucifera	coconut palm	8"	40'	28'	Moderate	5'
168	Cocos nucifera	Coconut palm	8"	24'	22'	Moderate	5'
169	Cocos nucifera	Coconut palm	11"	40'	38'	Moderate	5'
170	Cocos nucifera	Coconut palm	10"	35'	30'	Moderate	5'
170a	Cocos nucifera	Coconut palm	7"	30'	28'	Moderate	5'
172	Cocos nucifera	Coconut palm	8"	28'	30'	Good	5'
173	Cocos nucifera	Coconut palm	8"	28'	30'	Good	5'
174	Cocos nucifera	coconut palm	13"	30'	30'	Good	5'
174a	Cocos nucifera	Coconut palm	11"	26'	28'	Good	5'
174b	Cocos nucifera	Coconut palm	8"	16'	26'	Good	5'

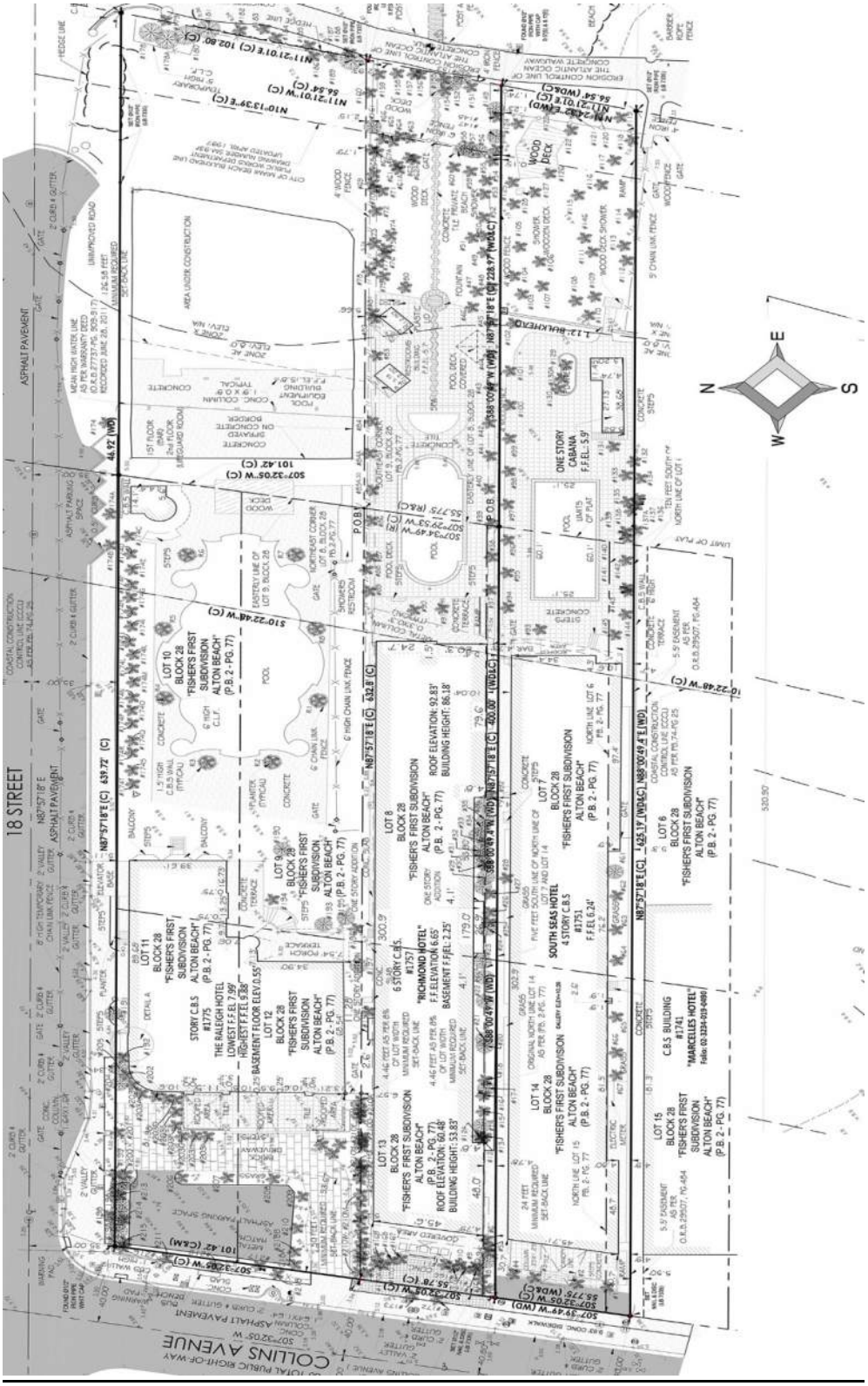
174c	Ravenala madagascariensis	Traveller's tree	28"	6'	30'	Good	4'
174d	Ravenala madagascariensis	Traveller's tree	28'	6'	30'	Good	4'
174e	Ravenala madagascariensis	Traveller's tree	28'	6'	30'	Good	4'
174f	Ravenala madagascariensis	Traveller's tree	28'	6'	30'	Good	4'
174g	Ravenala madagascariensis	Traveller's tree	28"	6'	30'	Good	4'
174h	Ravenala madagascariensis	Traveller's tree	28"	6'	30'	Good	4'
174i	Ravenala madagascariensis	Traveller's tree	28"	6'	30'	Good	4'
174j	Ravenala madagascariensis	Traveller's tree	28"	6'	30'	Good	4'
174k	Ravenala madagascariensis	Traveller's tree	28"	6'	30'	Good	4'
174l	Ravenala madagascariensis	Traveller's tree	28"	6'	30'	Good	4'
174m	Ravenala madagascariensis	Traveller's tree	28"	6'	30'	Good	4'
174n	Ravenala madagascariensis	Traveller's tree	28"	6'	30'	Good	4'
174o	Ravenala madagascariensis	Traveller's tree	28"	6'	30'	Good	4'
174p	Ravenala madagascariensis	Traveller's tree	28"	6'	30'	Good	4'
174q	Ravenala madagascariensis	Traveller's tree	28"	6'	30'	Good	4'
174r	Ravenala madagascariensis	Traveller's tree	28"	6'	30'	Good	4'
174s	Ravenala madagascariensis	Traveller's tree	28"	6'	30'	Good	4'
174t	Ravenala madagascariensis	Traveller's tree	28"	6'	30'	Good	4'
175	Not onsite						
176	Not onsite						
177	Not onsite						
178	Pandanas utilis	Screw pine	27"	18'	28'	Good	8'
178a	Conocarpus erectus sericeus	Silver buttonwood	7"	14'	18'	Good	5'
190	Coccoloba uvifera	Seagrape	44"	30'	45'	Moderate	18'
191	Conocarpus erectus sericeus	Silver buttonwood	3"	13'	12'	Moderate	4'
192	Ravenala madagascariensis	Traveller's tree	8"	10'	38'	Good	5'
193	Bursera simaruba	Gumbo limbo	22"	30'	35'	Moderate	18'
194	Phoenix sylvestris	Sylvester palm	10"	25'	30'	Good	5'
195	Coccoloba uvifera	Seagrape	12"	35'	40'	Poor	16'
196	Ravenala madagascariensis	Traveller's tree	6"	22'	28'	Moderate	5'
197	Ficus microcarpa	Laurel fig	13"	38'	25'	Poor	10'
197a	Adonidia merrillii	Christmas palm	7"	20'	14'	Good	4'
198	Cocos nucifera	Coconut palm	8"	30'	34'	Moderate	5'
198a	Conocarpus erectus sericeus	Silver buttonwood	8"	18'	15'	Moderate	7'
198b	Conocarpus erectus sericeus	Silver buttonwood	9"	18'	18'	Moderate	7'
198c	Conocarpus erectus sericeus	Silver buttonwood	6"	18'	10'	Moderate	7'
198d	Conocarpus erectus sericeus	Silver buttonwood	8"	18'	18'	Moderate	7'
198e	Conocarpus erectus sericeus	Silver buttonwood	10"	18'	18'	Moderate	7'
198f	Conocarpus erectus sericeus	Silver buttonwood	3"	16'	12'	Moderate	7'
198g	Conocarpus erectus sericeus	Silver buttonwood	6"	18'	10'	Moderate	7'
198h	Conocarpus erectus sericeus	Silver buttonwood	3"	16'	8'	Moderate	7'

198i	Conocarpus erectus sericeus	Silver buttonwood	7"	16'	10'	Moderate	7'
198j	Conocarpus erectus sericeus	Silver buttonwood	4"	16'	6'	Moderate	7'
199	Roystonea regia	Royal palm	17"	22'	30'	Good	5'
200	Ravenala madagascariensis	Traveller's tree	6"	7'	20'	Good	5'
201	Roystonea regia	Royal palm	18"	28'	22'	Moderate	5'
202	Ravenala madagascariensis	Traveller's tree	10"	22'	30'	Good	5'
203	Ravenala madagascariensis	Traveller's tree	7"	10'	25'	Good	5'
203a	Ravenala madagascariensis	Traveller's tree	26"	8'	35'	Good	5'
203b	Ravenala madagascariensis	Traveller's tree	24"	18'	30'	Good	5'
203c	Ravenala madagascariensis	Traveller's tree	8"	15'	18'	Good	5'
203d	Ravenala madagascariensis	Traveller's tree	21"	18'	35'	Good	5'
203e	Ravenala madagascariensis	Traveller's tree	26"	24'	40'	Good	5'
203f	Ravenala madagascariensis	Traveller's tree	16"	25'	35'	Good	5'
203g	Ravenala madagascariensis	Traveller's tree	8"	15'	24'	Good	5'
203h	Ravenala madagascariensis	Traveller's tree	36"	25'	35'	Good	5'
203i	Ravenala madagascariensis	Traveller's tree	25"	25'	35'	Good	5'
204	Clusia rosea	Pitch apple	6"	24'	20'	Poor	8'
205	Clusia rosea	Pitch apple	6"	24'	20'	Poor	8'
206	Roystonea regia	Royal palm	18"	24'	28'	Good	5'
207	Roystonea regia	Royal palm	18"	30'	28'	Good	5'
208	Roystonea regia	Royal palm	20"	25'	28'	Good	5'
209	Roystonea regia	Royal palm	20"	22'	34'	Good	5'
210	Roystonea regia	Royal palm	16"	30'	34'	Good	5'
210a	Ravenala madagascariensis	Traveller's tree	8"	15'	35'	Moderate	6'
210b	Ravenala madagascariensis	Traveller's tree	8"	10'	20'	Moderate	6'
210c	Ravenala madagascariensis	Traveller's tree	9"	18'	28'	Moderate	6'
210d	Ravenala madagascariensis	Traveller's tree	7"	9'	14'	Moderate	6'
210e	Ravenala madagascariensis	Traveller's tree	25"	20'	30'	Moderate	6'
210f	Ravenala madagascariensis	Traveller's tree	28"	18'	35'	Moderate	6'
210g	Ravenala madagascariensis	Traveller's tree	5"	6'	36'	Moderate	6'
210h	Ravenala madagascariensis	Traveller's tree	9"	18'	28'	Moderate	6'
210i	Ravenala madagascariensis	Traveller's tree	18'	8'	35'	Moderate	6'
210j	Ravenala madagascariensis	Traveller's tree	18'	8'	35'	Moderate	6'
210k	Ravenala madagascariensis	Traveller's tree	18'	8'	35'	Moderate	6'
210l	Ravenala madagascariensis	Traveller's tree	18'	8'	35'	Moderate	6'
210m	Ravenala madagascariensis	Traveller's tree	18'	8'	35'	Moderate	6'
210n	Ravenala madagascariensis	Traveller's tree	18'	8'	35'	Moderate	6'
210o	Ravenala madagascariensis	Traveller's tree	18'	8'	35'	Moderate	6'
210p	Ravenala madagascariensis	Traveller's tree	18'	8'	35'	Moderate	6'
210q	Ravenala madagascariensis	Traveller's tree	18'	8'	35'	Moderate	6'
210r	Ravenala madagascariensis	Traveller's tree	18'	8'	35'	Moderate	6'
210s	Ravenala madagascariensis	Traveller's tree	18'	8'	35'	Moderate	6'

210t	Ravenala madagascariensis	Traveller's tree	18'	8'	35'	Moderate	6'
210u	Ravenala madagascariensis	Traveller's tree	18'	8'	35'	Moderate	6'
210v	Ravenala madagascariensis	Traveller's tree	18'	8'	35'	Moderate	6'
210w	Ravenala madagascariensis	Traveller's tree	18'	8'	35'	Moderate	6'
211	Cocos nucifera	Coconut palm	9"	30'	28'	Moderate	5'
212	Cocos nucifera	Coconut palm	9"	26'	30'	Moderate	5'
213	Ravenala madagascariensis	Traveller's tree	7"	6'	12'	Poor	4'
214	Ravenala madagascariensis	Traveller's tree	7"	7'	20'	Moderate	4'
215	Ravenala madagascariensis	Traveller's tree	9"	10'	26'	Moderate	4'
216	Cocos nucifera	Coconut palm	9"	30'	38'	Moderate	5'
217	Adonidia merrillii	Christmas palm	7"	18'	12'	Poor	4'
218	Cocos nucifera	Coconut palm	9"	30'	32'	Moderate	5'
218a	Roystonea regia	Royal palm	18"	28'	28'	Good	5'
218b	Ravenala madagascariensis	Traveller's tree	7"	8'	20'	Moderate	4'
219	Conocarpus erectus	Green buttonwood	23"	30'	50'	Poor	
R1	Phoenix dactylifera	Date palm	24"	35'	30'	Good	5'
R2	Phoenix dactylifera	Date palm	23"	30'	28'	Good	5'
R3	Phoenix dactylifera	Date palm	26"	25'	28'	Good	5'
R4	Phoenix dactylifera	Date palm	24"	30'	28'	Good	5'
R5	Phoenix dactylifera	Date palm	20"	30'	30'	Good	5'
R6	Phoenix dactylifera	Date palm	18"	28'	30'	Good	5'
R7	Phoenix dactylifera	Date palm	24"	25'	28'	Good	5'
R8	Phoenix dactylifera	Date palm	18"	28'	28'	Good	5'

- **TPZ is the radius of the tree protection zone. The measurement is from the outside of the trunk(s).**
- **The TPZs that I have assigned to the trees on this site are sufficient to maintain CRZs for these trees as well as the TPZs.**
- **The CRZ of a tree may be limited by adjacent structures (or former adjacent structures), pavement and asphalt. This can be determined by monitoring demolition or via air-spading.**
- **Canopy diameter is measured in one direction and is approximate.**
- **The column H/Ct denotes the approximate overall height of trees and the approximate overall height of grey wood/trunks on palms.**
- **I recommend the removal of trees and palms that I rate to be in poor condition.**

Appendix – B - Approximate locations of trees and palms



Appendix – C - ANSI A300 (Part 5) - 2005, Annex A

Management report information

Examples of suitability ratings

Good: These are trees with good health and structural stability that have the potential for longevity at the site.

Moderate: Trees in this category have fair health and/or structural defects that may be abated with treatment. Trees in this category require more intense management and monitoring, and may have shorter life-spans than those in the "good" category.

Poor: Trees in this category are in poor health or have significant defect s in structure that cannot be abated with treatment. These trees can be expected to decline regardless of management. The species or individual tree may possess either characteristics that are undesirable in landscape settings or be unsuited for use areas.

Appendix – D – Critical Root Zone and Tree Protection Zone

ANSI A 300 (Part 5) – 2012 Management of Trees and Shrubs during Site Planning, Site Development and Construction

Critical Root Zone (CRZ): The minimum volume of roots necessary to have for tree health and stability.

Tree Protection Zone (TPZ): The area surrounding a tree defined by a specified distance, in which excavation and other construction – related activities should be avoided. The TPZ is variable depending on species, factors, age and health of the plant, soil conditions, and proposed construction. The zone may be accomplished by physical barriers or soil protection layers or treatments.

ANSI A300 (Part 5) – 2012 54.7

A tree protection zone (TPZ) shall be delineated around all trees to be protected during a project

- **54.7.1 The area and dimensions of the TPZ should be calculated on the basis of species tolerance, age, and health, root structure, rooting depth and soil conditions.**

Appendix – E – Assumptions and Limiting Conditions

Tropical Designs of Florida, Inc.
Arboricultural and Horticultural Consulting
Qualifications, Assumptions, and Limiting Conditions

Any legal description provided to the consultant is assumed to be correct. Any titles or ownership of properties are assumed to be good and marketable. All property is appraised or evaluated as though free and clear, under responsible ownership and competent management.

All property is presumed to be in conformance with applicable codes, ordinances, statutes, or other regulations.

Care has been taken to obtain information from reliable sources. However, the consultant cannot be responsible for the accuracy of information provided by others.

The consultant shall not be required to give testimony or to attend meetings, hearings, conferences, mediations, arbitrations, or trials by reason of this report unless subsequent contractual arrangements are made, including payment of an additional fee for such services.

This report and any appraisal value expressed herein represent the opinion of the consultant, and the consultant's fee is not contingent upon the reporting of a specified appraisal value, a stipulated result, or the occurrence of a subsequent event.

Sketches, drawings, and photographs in this report are intended for use as visual aids, are not necessarily to scale, and should not be construed as engineering or architectural reports or surveys. The reproduction of information generated by architects, engineers, or other consultants on any sketches, drawings, or photographs is only for coordination and ease of reference. Inclusion of said information with any drawings or other documents does not constitute a representation Tropical Designs of Florida, Inc. as to the sufficiency or accuracy of said information.

Unless otherwise expressed: a) this report covers only the examined items and their condition at the time of inspection: and b) the inspection is limited to visual examination of accessible items without dissection, excavation, probing, or coring. There is no warranty or guarantee, expressed or implied, that structural problems or deficiencies of plants or property may not arise in the future.

Appendix – F - Certification of Performance

Tropical Designs of Florida, Inc.
Arboricultural and Horticultural Consulting

I, Jeff Shimonski, certify:

- That I have personally inspected the trees and/or the property referred to in this report, and have stated my findings accurately. The extent of the evaluation is stated in the attached report;
- That I have no current or prospective interest in the vegetation or the property that is the subject of this report and have no personal interest or bias with respect to the parties involved;
- That the analysis, opinions, and conclusions stated herein are my own;
- That my analysis, opinions, and conclusions were developed and this report has been prepared according to commonly accepted arboricultural practices;
- That no one provided significant professional assistance to the consultant, except as indicated within the report;
- That my compensation is not contingent upon the reporting of a predetermined conclusion that favors the cause of the client or any other party.

I further certify that I am a member of the American Society of Consulting Arborists and acknowledge, accept, and adhere to the ASCA Standards of Professional Practice. I am an International Society of Arboriculture Certified Municipal Arborist FL-1052AM, am ISA Tree Risk Assessment Qualified and have been involved in the practice of arboriculture and the study of trees for over forty-five years.

Signed: Jeff Shimonski

Dated: *April 4, 2020*