

# ***Tree Resource Evaluation for 4000 Alton Road, Miami Beach***

***Prepared for:***

***ARQGEO***

***2900 Oak Avenue***

***Miami, FL 33133***

***Attn: Margarita Blanco***

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## **Summary**

**I performed a tree resource evaluation on the property located at 4000 Alton Road, Miami Beach on May 2<sup>nd</sup> and 3<sup>rd</sup> 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 protection zone (TPZ) for each tree and palm.**

**The City of Miami Beach requires trees with a DBH of 3 inches and a minimum 10 feet in height and palms 4 inches DBH and a minimum height of 10 feet in height to be documented.**

**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 the trees and palms inspected.**

**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.**

**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 on this site are sufficient to maintain CRZs as well as the TPZs.**

**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, driveway, or curb and therefore the CRZ can change.**

**The CRZ of a tree can be determined by monitoring demolition and/or via air-spading.**

**Any trees to remain onsite should have their canopies cleared of dead and hazardous branches by an ISA Certified Arborist.**

**Any arboricultural work done on trees in the powerlines or within 10 feet of an electrical conductor measured radially must be an Incidental Line Clearance Arborist as identified by American National Standard ANSI Z133-2017.**

### **Observations and recommendations**

**The majority of trees on this site are not good candidates for relocation due to very over-extended vertical branches with poor taper. The dense canopy and underbrush made identification and measurement of the canopy of numerous trees difficult. Some species names are tentative until the canopies flush-out with flowers and/or new foliage.**

**Many of the palms are showing severe nutrient deficiencies and a number of the royal palms have narrowing crownshafts (pinning) which is indicative of a long-term nutrient deficiency. These palms should not be considered for relocation.**

### **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](http://www.SWGIT.org). All photos taken by the author of this report.**



**Photo 1 above is tree 1 with extensive decay.**





**Photo 2 above is tree 2 that is becoming enveloped by a strangler fig, tree 2a. The “trunks” for tree 2a are not yet self-supporting. If tree 2 was removed, tree 2a would fail.**





**Photo 3 above is tree 3.**





**Photo 3 above is palms 4 & 253.**



**Photo 4 above is palms 5, 6, 7, 8, 9 & 13.**





**Photo 5 above is palm 10. See following photo.**





**Photo 6 above the trunk of palm 10 with a small cavity indicated. This is not affecting the palm's vascular system or structural integrity. The orange knife is 7 inches in length.**





**Photo 7 above is tree 18 with a canopy that appears to be dying-back. This tree should be considered for removal.**



**Photo 8 above is tree 19 that is dead.**





**Photo 9 above is trees 20a & 20b. Both had trunks that previously failed and are now coppicing (producing new trunks).**



**Photo 10 above is palms 14, 15, 16, 17 & 21.**





**Photo 11 above is palms 22, 24 & 25.**



**Photo 12 above is palms 23, 24 & 26.**





**Photo 13 above is the trunk of palm 25 with several large cavities. I recommend the removal of this palm. The orange knife is 7 inches in length.**





**Photo 14 above is palm 26 & tree 27.**





**Photo 15 above is the trunk of tree 27 showing no signs of cavities or decay.**





**Photo 16 above is palms 28, 30, 31 & 32. Palms 28 & 30 are rated as moderate due the lean of the trunk.**





**Photo 17 above is palms 33, 34, 35, 36, 39 & 40.**



**Photo 18 above is the trunk of tree 42.**





**Photo 19 above is the trunk of tree 43.**





**Photo 20 above is tree 45.**





**Photo 21 above is trees 44 & 48.**





**Photo 22 above is tree 49.**





**Photo 23 above is tree 50.**





**Photo 24 above is trees 51 & 54 viewed from the south.**





**Photo 25 above is the trunk of tree 51 with no signs of decay or cavities on the trunk or root collar.**





**Photo 26 above is tree 52.**





**Photo 27 above is tree 53.**





**Photo 28 above is tree 54.**





**Photo 29 above is tree 56.**





**Photo 30 above is trees 57 & 58.**





**Photo 31 above is tree 60.**





**Photo 32 above is tree 62 with no signs of decay or cavities on the trunk or root collar.**





**Photo 33 above is tree 63 with no signs of decay or cavities on the trunk or root collar.**





**Photo 34 above is trees 62, 63, 73, and palm 66.**





**Photo 35 is tree 64 with no signs of decay or cavities on the trunk or root collar.**





**Photo 36 above is tree 67.**





**Photo 37 above is trees 66, 67 & 68.**





**Photo 38 above is tree 69.**





**Photo 39 above is tree 70.**





**Photo 40 above is tree 71 with no signs of decay or cavities on the trunk or root collar.**





**Photo 41 above is tree 72.**





**Photo 42 above is tree 73 viewed from the south.**





**Photo 43 above is the trunk of tree 73.**





**Photo 44 above is trees 74 & 75.**





**Photo 45 above is tree 75.**





**Photo 46 above is the topped trunk of tree 77 with extensive decay indicated.**





**Photo 47 above is tree 79 with a weak codominant branch/trunk connection.**





**Photo 48 above is trees 80 & 81 with no signs of decay or cavities on the trunk.**





**Photo 49 above is trees 80, 81, 82, 84 & 85 viewed from the south.**



**Photo 50 above is trees 84 through 90, and trees 82 & 182 viewed from the south.**





**Photo 51 above is tree 82 with no signs of decay or cavities on the trunk(s).**





**Photo 52 above is tree 83.**





**Photo 53 above is trees 86 through 90.**





**Photo 54 above is tree 91.**





**Photo 55 above is tree 93.**





**Photo 56 above is trees 94 & 95.**





**Photo 57 above is invasive species 96, 97 & 98.**





**Photo 58 above is trees 97 & 98.**





**Photo 59 above is palm 99 & tree 100.**





**Photo 60 above is trees 101, 102, 103 & 122 viewed from the south.**





**Photo 61 above is the trunk of tree 102 viewed from the west.**





**Photo 62 above is the trunk of tree 102 viewed from the north. There is a cavity indicated however there appears to be no active decay.**





**Photo 63 above is trees 103 & 104.**





**Photo 64 above is tree 105 viewed from the north.**





**Photo 65 above is the trunk of tree 105 with no decay or cavities noted on the trunk or root collar.**





**Photo 66 above is tree 107.**





**Phot0 67 above is tree 108 and palms 109 & 110.**





**Photo 68 above is palms 111, 112 & 113 and tree 130.**





**Photo 69 above is palms 114 & 120.**





**Photo 70 above is palm 115 & tree 116.**





**Photo 71 above is palm 120 & tree 121.**





**Photo 72 above is tree 122 with no signs of cavities or active decay on the trunk or root collar.**





**Photo 73 above is the trunk of tree 122 with an old pruning cut indicated that does not appear to be actively decaying.**





**Photo 74 above is palm 112 & tree 123.**





**Photo 75 above is palms 128 & 129.**





**Photo 76 above is palms 133 & 134 and tree 130.**





**Photo 77 above is palms 133, 134, 136, 138 & 141 and tree 143.**





**Photo 78 above is palms 142, 144 & 145 and tree 143. Palm 144 is developing a severe nutrient deficiency.**





**Photo 79 above is tree 146.**





**Photo 80 above is palms 150, 151 & 152 with signs of nutrient deficiencies.**





**Photo 81 above is palms 151 & 152 with severe nutrient deficiencies and tree 151b with significant small branch die-back.**





**Photo 82 above is palms 152, 154 & 155.**





**Photo 83 above is palms 157, 162, 163 & 164 and tree 158.**





**Photo 84 above is palms 164, 167, 169, 170 & 170 showing signs of nutrient deficiencies.**





**Photo 85 above is palms 171, 172 & 175 showing signs of severe nutrient deficiencies.**





**Photo 86 above is palms 177 & 178.**





**Photo 87 above is palm 179 and tree 180a.**





**Photo 88 above is trees 180b & 180c and palm 180.**





**Photo 89 above is tree 181 viewed from the south.**





**Photo 90 above is the trunk of tree 181 with no signs of decay or cavities on the trunk or root collar.**





**Photo 91 above is tree 182 & palm 188.**





**Photo 92 above is the trunk of tree 182 with no signs of cavities or active decay on the trunk or root collar.**





**Photo 93 above is trees 79 & 189 viewed from the north.**





**Photo 94 above is tree 189 viewed from the east.**





**Photo 95 above is tree 192.**





**Photo 96 above is palm 194 & tree 191.**





**Photo 97 above is palm 193 & tree 195.**





**Photo 98 above is trees 197 & 198.**





**Photo 99 above is trees 199 & 200.**





**Photo 100 above is tree 201.**





**Photo 101 above is invasive species 202.**





**Photo 102 above is tree 204.**





**Photo 103 above is trees 205 & 206 both with multiple trunks. I noted no signs of cavities or active decay on the trunks or root collar of these trees.**





**Photo 104 above is tree 206 & palm 207.**





**Photo 105 above is tree 208.**





**Photo 106 above is trees 210 & 211.**





**Photo 107 above is trees 210, 211, 219 & 217 viewed from the north.**





**Photo 108 above is tree 212.**





**Photo 109 above is tree 216.**





**Photo 110 above is tree 217 viewed from the west. I noted no signs of active decay or cavities on the trunk or root collar of this tree.**





**Photo 111 above is tree 217 viewed from the east. I noted no signs of active decay or cavities on the trunk or root collar of this tree.**





**Photo 112 above is tree 218.**





**Photo 113 above is tree 219.**





**Photo 114 above is tree 220.**





**Photo 115 above is tree 221. I noted no signs of active decay or cavities on the trunk or root collar of this tree.**





**Photo 116 above is tree 222.**





**Photo 117 above is tree 223 viewed from the west.**





**Photo 118 above is tree 223 viewed from the east. I noted no signs of active decay or cavities on the trunk or root collar of this tree.**





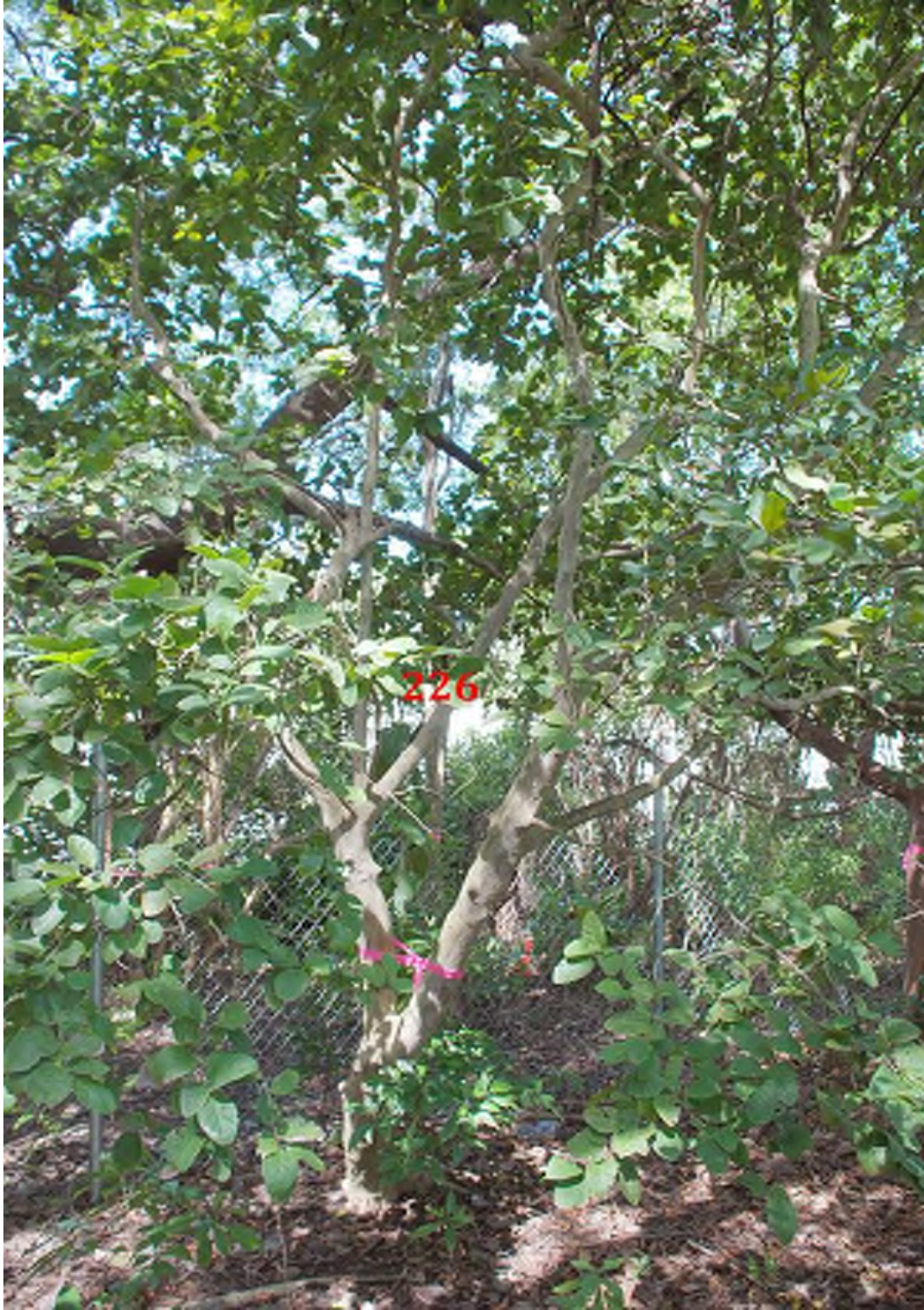
**Photo 119 above is tree 224.**





**Photo 120 above is tree 225.**





**Photo 121 above is tree 226.**





**Photo 122 above is tree 227 viewed from the east.**





**Photo 123 above is tree 227 viewed from the west. I noted no signs of active decay or cavities on the trunk or root collar of this tree.**





**Photo 124 above is tree 228 viewed from the northeast.**





**Photo 125 above is tree 228 viewed from the west. I noted no signs of active decay or cavities on the trunk or root collar of this tree.**





**Photo 126 above is tree 230.**





**Photo 127 above is trees 229 & 231.**





**Photo 128 above is tree 232.**





**Photo 129 above is tree 233.**





**Photo 130 above is invasive species 234.**





**Photo 131 above is trees 237 & 237a.**





**Photo 132 above is tree 238.**





**Photo 133 above is the canopy of tree 217 and palms 239, 240, 245 & 246.**





**Photo 134 above is the cracked and damaged trunk of palm 239. This palm should be removed. The orange knife is 7 inches in length.**





**Photo 135 above is palms 241 & 242 and tree 224.**





**Photo 136 above is palms 246 & 247.**





**Photo 137 above is tree 246 with some superficial damage to the pseudobark of the trunks.**





**Photo 138 above is palms 248, 249 & 250.**





**Photo 139 above is palms 250, 251 & 253 and tree 252.**





**Photo 140 above is palms 254 through 257.**



## **Appendix – A – Measurements and condition rating**

	<b>Scientific name</b>	<b>Common name</b>	<b>DBH</b>	<b>H/Ct</b>	<b>Canopy</b>	<b>Condition</b>	<b>TPZ</b>
1	Bauhinia variegata	Hong Kong orchid	27"	35'	35'	Poor	15'
2	Podocarpus macrophyllus	Podocarpus	26"	25'	32'	Good	15'
2a	Ficus aurea	Strangler fig	15"	20'	25'	Poor	15'
3	Sideroxylon foetidissimum	False mastic	17"	26'	35'	Moderate	15'
4	Sabal palmetto	Sabal palm	12"	22'	18'	Good	4'
5	Roystonea regia	Royal palm	18"	30'	32'	Good	5'
6	Cocos nucifera	Coconut palm	10"	28'	30'	Good	5'
7	Cocos nucifera	Coconut palm	7"	18'	28'	Good	5'
8	Cocos nucifera	Coconut palm	8"	15'	28'	Good	5'
9	Cocos nucifera	Coconut palm	8"	28'	30'	Good	5'
10	Roystonea regia	Royal palm	8"	17'	18'	Moderate	5'
11	Cocos nucifera	Coconut palm	9"	28'	26'	Good	5'
12	Cocos nucifera	Coconut palm	8"	22'	18'	Good	5'
13	Cocos nucifera	Coconut palm	9"	28'	28'	Good	5'
14	Cocos nucifera	Coconut palm	9"	28'	28'	Good	5'
15	Cocos nucifera	Coconut palm	11"	30'	32'	Good	5'
16	Cocos nucifera	Coconut palm	13"	30'	24'	Good	5'
17	Cocos nucifera	Coconut palm	8"	30'	28'	Good	5'
18	Delonix regia	Royal poinciana	4"	14'	17'	Poor	4'
19	Delonix regia	Royal poinciana	3"	13'	13'	Dead	
20	Roystonea regia	Royal palm	19"	20'	30'	Good	5'
20a	Tabebuia caraiba	Yellow tabebuia	10"	13'	16'	Poor	5'
20b	Tabebuia caraiba	Yellow tabebuia	25"	16'	28'	Poor	5'
21	Cocos nucifera	Coconut palm	9"	18'	28'	Good	5'
22	Roystonea regia	Royal palm	11"	22'	26'	Good	5'
23	Roystonea regia	Royal palm	11"	25'	24'	Good	5'
24	Roystonea regia	Royal palm	11"	17'	20'	Poor	5'
25	Roystonea regia	Royal palm	20"	30'	38'	Good	5'
26	Roystonea regia	Royal palm	18"	30'	32'	Good	5'
27	Tabebuia heterophylla	Pink trumpet tree	12"	30'	40'	Good	10'
28	Livistona chinensis	Chinese fan palm	11"	30'	16'	Moderate	5'
29	Livistona chinensis	Chinese fan palm	12"	50'	18'	Good	5'
30	Livistona chinensis	Chinese fan palm	12"	30'	16'	Moderate	5'
31	Washingtonia filifera	Washingtonia palm	11"	28'	16'	Good	5'
32	Livistona chinensis	Chinese fan palm	14"	45'	16'	Good	5'
33	Livistona chinensis	Chinese fan palm	13"	40'	16'	Good	5'
34	Washingtonia filifera	Washingtonia palm	12"	14'	14'	Good	5'
35	Washingtonia filifera	Washingtonia palm	10"	25'	14'	Good	5'
36	Livistona chinensis	Chinese fan palm	12"	40'	18'	Good	5'



37	Washingtonia filifera	Washingtonia palm	14"	30'	18'	Good	5'
38	Livistona chinensis	Chinese fan palm	12"	40'	18'	Good	5'
39	Livistona chinensis	Chinese fan palm	12"	50'	18'	Good	5'
40	Livistona chinensis	Chinese fan palm	12"	45'	18'	Good	5'
41	Trema micrantha	Florida trema	4"	20'	18'	Poor	4'
42	Sideroxylon foetidissimum	False mastic	15"	50'	55'	Good	18'
43	Eugenia axillaris	White stopper	9"	28'	30'	Poor	6'
44	Eugenia axillaris	White stopper	5"	35'	18'	Poor	6'
45	Eugenia axillaris	White stopper	5"	18'	12'	Moderate	5'
46	Eugenia axillaris	White stopper	5"	20'	12'	Moderate	5'
47	Eugenia axillaris	White stopper	8"	18'	14'	Moderate	6'
48	Eugenia axillaris	White stopper	9"	18'	18'	Moderate	6'
49	Eugenia axillaris	White stopper	8"	20'	18'	Moderate	6'
50	Quercus virginiana	Live oak	20"	45'	45'	Moderate	18'
51	Sideroxylon foetidissimum	False mastic	32"	40'	45'	Moderate	18'
52	Eugenia axillaris	White stopper	5"	26'	12'	Moderate	6'
53	Eugenia axillaris	White stopper	13"	20'	18'	Poor	6'
54	Quercus virginiana	Live oak	7"	28'	35'	Poor	6'
55	Eugenia foetida	Spanish stopper	7"	14'	10'	Moderate	6'
56	Eugenia foetida	Spanish stopper	9"	24'	18'	Good	8'
57	Eugenia foetida	Spanish stopper	6"	28'	16'	Good	8'
58	Swietenia mahagoni	Mahogany	3"	28'	16'	Poor	4'
59	Eugenia foetida	Spanish stopper	4"	20'	18'	Good	5'
60	Eugenia axillaris	White stopper	6"	18'	10'	Good	6'
61	Ptychosperma elegans	Solitare palm	4"	8'	18'	Good	3'
62	Quercus virginiana	Live oak	17"	40'	70'	Good	20'
63	Sideroxylon foetidissimum	False mastic	20"	45'	65'	Good	20'
64	Quercus virginiana	Live oak	15"	45'	65'	Good	18'
65	Spathodea campanulata	African tulip tree	7"	45'	35'	Poor	8'
66	Sabal palmetto	Sabal palm	14"	8'	18'	Good	4'
67	Eugenia foetida	Spanish stopper	14"	28'	20'	Good	15'
68	Coccoloba diversifolia	Pigeon plum	5"	14'	12'	Good	6'
69	Eugenia foetida	Spanish stopper	7"	20'	18'	Good	8'
70	Eugenia foetida	Spanish stopper	13"	30'	28'	Good	10'
71	Bursera simaruba	Gumbo limbo	11"	28'	40'	Moderate	10'
72	Eugenia foetida	Spanish stopper	8"	22'	30'	Moderate	10'
73	Swietenia mahagoni	Mahogany	35"	50'	75'	Moderate	20'
74	Terminalia catappa	Tropical almond	4"	16'	20'	Moderate	5'
75	Coccoloba diversifolia	Pigeon plum	7"	15'	12'	Moderate	6'
76	Dyopsis lutescens	Areca palm	19"	12'	20'	Poor	4'
77	Manilkara zapota	Sapodilla	26"	14'	14'	Poor	10'
78	Dyopsis lutescens	Areca palm	18"	8'	24'	Poor	4'



79	<i>Terminalia catappa</i>	Tropical almond	21"	35'	55'	Poor	15'
80	<i>Bursera simaruba</i>	Gumbo limbo	7"	22'	30'	Poor	8'
81	<i>Quercus virginiana</i>	Live oak	8"	25'	40'	Poor	10'
82	<i>Terminalia catappa</i>	Tropical almond	38"	50'	70'	Poor	20'
83	<i>Coccoloba diversifolia</i>	Pigeon plum	7"	20'	22'	Good	8'
84	<i>Conocarpus erectus sericeus</i>	Silver buttonwood	5"	18'	14'	Poor	6'
85	<i>Conocarpus erectus sericeus</i>	Silver buttonwood	5"	18'	16'	Poor	6'
86	<i>Conocarpus erectus sericeus</i>	Silver buttonwood	13"	18'	18'	Poor	6'
87	<i>Conocarpus erectus sericeus</i>	Silver buttonwood	19"	22'	25'	Moderate	15'
88	<i>Conocarpus erectus sericeus</i>	Silver buttonwood	21"	22'	20'	Moderate	15'
89	<i>Conocarpus erectus sericeus</i>	Silver buttonwood	8"	18'	18'	Poor	8'
90	<i>Conocarpus erectus sericeus</i>	Silver buttonwood	11"	18'	18'	Poor	10'
91	<i>Conocarpus erectus</i>	Green buttonwood	6"	15'	15'	Poor	6'
92	<i>Conocarpus erectus</i>	Green buttonwood	6"	12'	15'	Poor	6'
93	<i>Schinus terebinthifolius</i>	Brazilian pepper	13"	18'	25'	Invasive	
94	<i>Terminalia catappa</i>	Tropical almond	7"	26'	28'	Poor	8'
95	<i>Leucaena leucocephala</i>	Lead tree	6"	26'	30'	Invasive	
96	<i>Leucaena leucocephala</i>	Lead tree	5"	25'	20'	Invasive	
97	<i>Leucaena leucocephala</i>	Lead tree	4"	20'	18'	Invasive	
98	<i>Leucaena leucocephala</i>	Lead tree	7"	25'	30'	Invasive	
99	<i>Sabal palmetto</i>	Sabal palm	14"	4'	18'	Good	4'
100	<i>Conocarpus erectus sericeus</i>	Silver buttonwood	11"	18'	30'	Moderate	10'
101	<i>Conocarpus erectus sericeus</i>	Silver buttonwood	7"	18'	22'	Moderate	8'
102	<i>Ficus benjamina nuda</i>	Weeping fig	32"	25'	70'	Good	25'
103	<i>Conocarpus erectus</i>	Green buttonwood	11"	25'	35'	Good	10'
104	<i>Conocarpus erectus</i>	Green buttonwood	19"	25'	25'	Good	15'
105	<i>Swietenia mahagoni</i>	Mahogany	44"	40'	70'	Good	25'
106	<i>Sabal palmetto</i>	Sabal palm	12"	12'	18'	Moderate	4'
107	<i>Podocarpus gracilior</i>	Weeping podocarpus	8"	27'	30'	Good	8'
108	<i>Podocarpus gracilior</i>	Weeping podocarpus	4"	14'	18'	Good	5'
109	<i>Roystonea regia</i>	Royal palm	17"	14'	20'	Good	5'
110	<i>Latania loddigesii</i>	Blue latan palm	0	0	18'	Good	5'
111	<i>Veitchia montgomeryana</i>	Montgomery palm	8"	20'	14'	Good	4'
112	<i>Veitchia montgomeryana</i>	Montgomery palm	9"	30'	16'	Good	4'
113	<i>Veitchia montgomeryana</i>	Montgomery palm	9"	20'	14'	Good	4'
114	<i>Sabal palmetto</i>	Sabal palm	11"	20'	18'	Good	4'
115	<i>Acoelorrhaphe wrightii</i>	Paurotis palm	56"	14'	30'	Good	4'
116	<i>Conocarpus erectus</i>	Green buttonwood	17"	35'	30'	Moderate	15'
117	<i>Conocarpus erectus</i>	Green buttonwood	9"	26'	20'	Good	10'
118	<i>Conocarpus erectus</i>	Green buttonwood	13"	28'	20'	Good	10'
119	<i>Acoelorrhaphe wrightii</i>	Paurotis palm	54"	14'	25'	Good	4'
120	<i>Acoelorrhaphe wrightii</i>	Paurotis palm	48"	14'	30'	Good	4'



121	Bursera simaruba	Gumbo limbo	10"	30'	30'	Good	10'
122	Ficus benamina nuda	Weeping fig	20"	35'	65'	Good	20'
123	Quercus virginiana	Live oak	8"	35'	32'	Good	10'
124	Acoelorrhaphe wrightii	Paurotis palm	50"	14'	34'	Good	4'
125	Acoelorrhaphe wrightii	Paurotis palm	40"	18'	35'	Good	4'
126	Cocos nucifera	Coconut palm	8"	13'	26'	Good	4'
127	Acoelorrhaphe wrightii	Paurotis palm	51"	15'	32'	Good	4'
128	Sabal palmetto	Sabal palm	14"	6'	18'	Good	4'
129	Sabal palmetto	Sabal palm	12"	13'	18'	Good	4'
125	Acoelorrhaphe wrightii	Paurotis palm	40"	18'	35'	Good	4'
126	Cocos nucifera	Coconut palm	8"	13'	28'	Good	4'
127	Acoelorrhaphe wrightii	Paurotis palm	51"	15'	32'	Good	4'
128	Sabal palmetto	Sabal palm	14"	6'	18'	Good	4'
129	Sabal palmetto	Sabal palm	12"	13'	18'	Good	4'
130	Quercus virginiana	Live oak	8"	35'	30'	Good	8'
131	Acoelorrhaphe wrightii	Paurotis palm	50"	16'	30'	Good	4'
132	Sabal palmetto	Sabal palm	11"	15'	18'	Good	4'
133	Acoelorrhaphe wrightii	Paurotis palm	36"	12'	18'	Good	4'
134	Acoelorrhaphe wrightii	Paurotis palm	36"	12'	18'	Good	4'
135	Rapanea punctata	Myrsine	2"	14'	14'	Good	3'
136	Cocos nucifera	Coconut palm	18"	13'	22'	Good	4'
137	Acoelorrhaphe wrightii	Paurotis palm	38"	13'	18'	Good	4'
138	Acoelorrhaphe wrightii	Paurotis palm	34"	13'	15'	Good	4'
139	Rapanea punctata	Myrsine	3"	14'	15'	Good	4'
139a	Conocarpus erectus	Green buttonwood	7"	18'	25'	Good	8'
139b	Conocarpus erectus	Green buttonwood	5"	28'	18'	Good	8'
140	Cocos nucifera	Coconut palm	18"	15'	28'	Good	5'
141	Acoelorrhaphe wrightii	Paurotis palm	54"	12'	18'	Good	4'
142	Roystonea regia	Royal palm	18"	30'	28'	Good	5'
143	Quercus virginiana	Live oak	6"	28'	30'	Moderate	8'
144	Roystonea regia	Royal palm	18"	50'	20'	Moderate	5'
145	Latania loddigesii	Blue latan palm	0	0	18'	Good	5'
146	Quercus virginiana	Live oak	7"	27'	38'	Moderate	8'
147	Cocos nucifera	Coconut palm	9"	12'	24'	Good	5'
148	Sabal palmetto	Sabal palm	12:00	14'	22'	Good	4'
149	Cocos nucifera	Coconut palm	9"	12'	32'	Good	5'
149a	Conocarpus erectus	Green buttonwood	4"	15'	18'	Good	5'
149b	Conocarpus erectus	Green buttonwood	7"	24'	26'	Good	5'
149c	Conocarpus erectus	Green buttonwood	8"	20'	22'	Good	5'
149d	Rapanea punctata	Myrsine	3"	22'	18'	Good	4'
149e	Conocarpus erectus	Green buttonwood	6"	22'	22'	Good	5'
150	Cocos nucifera	Coconut palm	9"	12'	18'	Good	5'



151	Roystonea regia	Royal palm	16"	18'	18'	Poor	5'
151a	Conocarpus erectus	Green buttonwood	6"	18'	15'	Good	5'
151b	Quercus virginiana	Live oak	6"	28'	24'	Moderate	8'
151c	Rapanea punctata	Myrsine	8"	20'	24'	Good	5'
151d	Conocarpus erectus	Green buttonwood	6"	24'	22'	Good	5'
152	Roystonea regia	Royal palm	16"	16'	18'	Poor	5'
152a	Conocarpus erectus	Green buttonwood	6"	24'	18'	Good	5'
153	Cocos nucifera	Coconut palm	9"	17'	24'	Moderate	5'
154	Cocos nucifera	Coconut palm	8"	14'	34'	Moderate	5'
155	Roystonea regia	Royal palm	17"	22'	30'	Poor	5'
155a	Conocarpus erectus	Green buttonwood	5"	20'	18'	Good	5'
156	Sabal palmetto	Sabal palm	13"	16'	16'	Good	4'
157	Cocos nucifera	Coconut palm	12"	35'	36'	Good	5'
157a	Rapanea punctata	Myrsine	5"	20'	18'	Good	5'
157b	Conocarpus erectus	Green buttonwood	4"	18'	20'	Moderate	5'
157c	Conocarpus erectus	Green buttonwood	7"	22'	18'	Good	5'
158	Quercus virginiana	Live oak	6"	30'	24'	Good	8'
159	Cocos nucifera	Coconut palm	10"	16'	28'	Moderate	10'
160	Conocarpus erectus	Green buttonwood	14"	22'	28'	Good	10'
161	Quercus virginiana	Live oak	7"	30'	28'	Good	8'
162	Sabal palmetto	Sabal palm	12"	12'	15'	Good	4'
163	Latania loddigesii	Blue latan palm	0	0	18'	Good	5'
164	Roystonea regia	Royal palm	15"	28'	16'	Poor	5'
165	Conocarpus erectus	Green buttonwood	7"	28'	35'	Good	8'
166	Conocarpus erectus	Green buttonwood	7"	27'	25'	Good	8'
167	Sabal palmetto	Sabal palm	13"	12'	18'	Good	4'
168	Conocarpus erectus	Green buttonwood	12"	28'	30'	Good	10'
169	Roystonea regia	Royal palm	13"	20'	18'	Poor	5'
169a	Conocarpus erectus	Green buttonwood	11"	16'	15'	Good	8'
170	Cocos nucifera	Coconut palm	9"	12'	18'	Good	4'
171	Roystonea regia	Royal palm	14"	26'	18'	Poor	5'
171a	Conocarpus erectus	Green buttonwood	5"	13'	12'	Good	5'
171b	Conocarpus erectus	Green buttonwood	7"	15'	14'	Good	6'
172	Cocos nucifera	Coconut palm	8"	13'	28'	Good	4'
172a	Conocarpus erectus	Green buttonwood	13"	26'	20'	Good	10'
173	Quercus virginiana	Live oak	6"	30'	35'	Good	8'
173a	Conocarpus erectus	Green buttonwood	4"	18'	16'	Good	6'
174	Sabal palmetto	Sabal palm	14"	7'	18'	Good	4'
175	Roystonea regia	Royal palm	12"	18'	24'	Poor	5'
175a	Conocarpus erectus	Green buttonwood	9"	22'	20'	Good	8'
176	Quercus virginiana	Live oak	6"	28'	18'	Moderate	8'
176a	Latania loddigesii	Blue latan palm	0	0	15'	Good	5'



177	Cocos nucifera	Coconut palm	8"	12'	36'	Good	4'
178	Sabal palmetto	Sabal palm	13"	15'	18'	Good	4'
179	Cocos nucifera	Coconut palm	9"	13'	35'	Good	4'
180	Roystonea regia	Royal palm	17"	18'	18'	Moderate	5'
180a	Rapanea punctata	Myrsine	4"	22'	22'	Good	6'
180b	Podocarpus macrophyllus	Podocarpus	5"	14'	14'	Good	5'
180c	Podocarpus macrophyllus	Podocarpus	5"	13'	14'	Moderate	5'
181	Swietenia mahagoni	Mahogany	38"	35'	60'	Good	20'
182	Manilkara zapota	Sapodilla	33"	35'	70'	Good	20'
183	Terminalia catappa	Tropical almond	4"	20'	25'	Good	5'
184	Terminalia catappa	Tropical almond	4"	20'	38'	Good	5'
185	Schinus terebinthifolius	Brazilian pepper	5"	25'	20'	Invasive	
186	Schinus terebinthifolius	Brazilian pepper	4"	25'	20'	Invasive	
187	Schinus terebinthifolius	Brazilian pepper	5"	22'	18'	Invasive	
188	Sabal palmetto	Sabal palm	12"	22'	18'	Good	4'
189	Ficus aurea	Strangler fig	48"	35'	55'	Moderate	18'
190	Sabal palmetto	Sabal palm	12"	22'	20'	Good	4'
191	Coccoloba diversifolia	Pigeon plum	7"	20'	15'	Moderate	5'
192	Coccoloba uvifera	Seagrape	8"	35'	40'	Good	12'
193	Roystonea regia	Royal palm	4"	4'	22'	Good	4'
194	Sabal palmetto	Sabal palm	0	1'	18'	Good	4'
195	Coccoloba diversifolia	Pigeon plum	8"	25'	16'	Moderate	6'
196	Sabal palmetto	Sabal palm	10"	7'	20'	Good	4'
197	Coccoloba diversifolia	Pigeon plum	9"	28'	20'	Good	10'
198	Terminalia catappa	Tropical almond	5"	28'	35'	Poor	8'
199	Ficus aurea	Strangler fig	3"	3'	18'	Moderate	4'
200	Quercus virginiana	Live oak	8"	30'	30'	Moderate	10'
201	Sideroxylon foetidissimum	False mastic	10"	35'	25'	Moderate	12'
202	Schinus terebinthifolius	Brazilian pepper	8"	14'	15'	Invasive	
203	Coccoloba diversifolia	Pigeon plum	5"	18'	15'	Poor	5'
204	Coccoloba diversifolia	Pigeon plum	9"	28'	18'	Moderate	10'
205	Coccoloba uvifera	Seagrape	59"	30'	70'	Good	25'
206	Coccoloba uvifera	Seagrape	25"	30'	35'	Good	18'
207	Sabal palmetto	Sabal palm	9"	18'	18'	Good	4'
208	Bursera simaruba	Gumbo limbo	11"	28'	35'	Moderate	10'
209	Rapanea punctata	Myrsine	10"	28'	28'	Moderate	10'
210	Terminalia catappa	Tropical almond	12"	35'	50'	Good	15'
211	Bursera simaruba	Gumbo limbo	22"	28'	35'	Good	20'
212	Bursera simaruba	Gumbo limbo	14"	28'	25'	Moderate	12'
213	Bursera simaruba	Gumbo limbo	13"	30'	50'	Good	15'
214	Rapanea punctata	Myrsine	7"	30'	18'	Moderate	8'
215	Rapanea punctata	Myrsine	13"	35'	28'	Moderate	12'



216	<i>Terminalia catappa</i>	Tropical almond	14"	60'	70'	Moderate	20'
217	<i>Ficus aurea</i>	Strangler fig	33"	70'	90'	Good	25'
218	<i>Quercus virginiana</i>	Live oak	13"	30'	45'	Good	15'
219	<i>Bursera simaruba</i>	Gumbo limbo	9"	35'	25'	Moderate	10'
220	<i>Rapanea punctata</i>	Myrsine	36"	28'	30'	Moderate	12'
221	<i>Sideroxylon foetidissimum</i>	False mastic	17"	45'	55'	Good	18'
222	<i>Bursera simaruba</i>	Gumbo limbo	11"	40'	50'	Moderate	15'
223	<i>Lysiloma latisiliquum</i>	Wild tamarind	56"	60'	90'	Good	25'
224	<i>Bursera simaruba</i>	Gumbo limbo	11"	18'	36'	Moderate	10'
225	<i>Bursera simaruba</i>	Gumbo limbo	14"	35'	45'	Good	15'
226	<i>Coccoloba diversifolia</i>	Pigeon plum	12"	22'	28'	Good	10'
227	<i>Lysiloma latisiliquum</i>	False mastic	48"	50'	80'	Good	25'
228	<i>Lysiloma latisiliquum</i>	False mastic	40"	55'	90'	Good	25'
229	<i>Citharexylum spinosum</i>	Fiddlewood	15"	35'	30'	Moderate	10'
230	<i>Rapanea punctata</i>	Myrsine	12"	28'	25'	Good	10'
231	<i>Citharexylum spinosum</i>	Fiddlewood	12"	35'	60'	Moderate	15'
232	<i>Bursera simaruba</i>	Gumbo limbo	12"	40'	55'	Good	18'
233	<i>Sideroxylon foetidissimum</i>	False mastic	10"	30'	30'	Moderate	10'
234	<i>Schinus terebinthifolius</i>	Brazilian pepper	14"	35'	40'	Invasive	
235	<i>Schinus terebinthifolius</i>	Brazilian pepper	18"	35'	40'	Invasive	
236	<i>Rapanea punctata</i>	Myrsine	22"	30'	55'	Good	18'
237	<i>Terminalia catappa</i>	Tropical almond	15"	40'	45'	Poor	15'
237a	<i>Bursera simaruba</i>	Gumbo limbo	9"	35'	25'	Poor	8'
238	<i>Bursera simaruba</i>	Gumbo limbo	17"	40'	80'	Moderate	18'
239	<i>Roystonea regia</i>	Royal palm	12"	25'	28'	Poor	5'
240	<i>Roystonea regia</i>	Royal palm	19"	30'	36'	Good	5'
241	<i>Roystonea regia</i>	Royal palm	14"	28'	34'	Good	5'
242	<i>Roystonea regia</i>	Royal palm	21"	38'	38'	Good	5'
243	Not found						
244	<i>Rapanea punctata</i>	Myrsine	15"	35'	30'	Moderate	15'
245	<i>Roystonea regia</i>	Royal palm	12"	28'	32'	Good	5'
246	<i>Roystonea regia</i>	Royal palm	13"	22'	24'	Good	5'
247	<i>Roystonea regia</i>	Royal palm	12"	13'	16'	Poor	5'
248	<i>Roystonea regia</i>	Royal palm	16"	26'	26'	Good	5'
249	<i>Cocos nucifera</i>	Coconut palm	8"	12'	28'	Good	5'
250	<i>Cocos nucifera</i>	Coconut palm	9"	9'	28'	Good	5'
251	<i>Cocos nucifera</i>	Coconut palm	9"	11'	30'	Good	5'
252	<i>Lysiloma latisiliquum</i>	False mastic	19"	28'	50'	Good	18'
253	<i>Roystonea regia</i>	Royal palm	17"	30'	32'	Good	5'
254	<i>Dyopsis lutescens</i>	Areca palm	32"	9'	18'	Good	4'
255	<i>Dyopsis lutescens</i>	Areca palm	28"	9'	18'	Moderate	4'
256	<i>Dyopsis lutescens</i>	Areca palm	42"	13'	18'	Good	4'



257	Dypsis lutescens	Areca palm	36"	9'	18'	Good	4'
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- TPZ is the radius of the tree protection. The measurement is from the outside of the trunk.
- 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.
- DBH is rounded-off to the nearest inch.
- Height is approximate.
- Canopy diameter is approximate and measured in one direction.
- The CRZ of a tree may be limited by adjacent structures (or former adjacent structures).
- A "0" in the DBH column denotes no trunk at 4.5 feet above grade.
- Column H/Ct denotes overall height for trees and clear trunk for palms.
- I recommend the removal of trees and palms that I rated to be in poor condition.







## **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 defects 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 – F - 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 – G - 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:

Dated: May 11, 2020