Tree Resource Evaluation for 12700 Rolling Road Drive, Pinecrest

Prepared for:

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January 16, 2023

Summary

I performed a tree resource evaluation on the property located at 12700 Rolling Road Drive, Village of Pinecrest on January 12, 2023. 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.

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.

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, or no roots of significance, from that tree underneath the footprint of the structure and therefore the CRZ can change. This includes adjacent curbs, sidewalks, and asphalt pavement.

Appendix F contains information on Root Management, and the potential amount of roots that can be removed, from the special companion publication

to the ANSI A300 Part 8: Tree, Shrub, and Other Woody Plant Management-Standard Practices (Root Management).

Any arboricultural work done on trees that extend into the powerlines or are within 10 feet of an electrical conductor measured radially, the arborist performing the work must be an Incidental Line Clearance Arborist as identified by American National Standard ANSI Z133-2017.

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.

Photo 1 above is tree 1 an invasive species.

Photo 2 above is trees 4 & A and palms 2 & 3.

I did not enter the adjacent property to measure the trunk (DBH) nor to inspect the root collar and trunk of tree A therefore DBH is estimated and there is no condition rating.

Palm 2 appears to have had a boron deficiency.

Photo 3 above is trees 54 & 5.

Photo 4 above is tree 4 showing roots that have grown underneath the driveway therefore the CRZ/TPZ extends underneath the driveway.

Photo 5 above is tree 5 with poor branch structure indicated. See following photo.

Photo 6 above is tree 5 with poor branch structure indicated and a significant cavity at a critical structural juncture.

Photo 7 above is trees 4, 5 & 6.

Photo 8 above is tree 6.

Photo 9 above is white bird of paradise 7, traveller's tree 8, and palms 9 & 10.

Palm 9 is dead.

Photo 10 above is palms 9, 10, 11 & 13 and white bird of paradise 12.

Palm 9 is dead & palm 13 is developing a severe nutrient deficiency.

Photo 11 above is palms 14, 15 & 16 and invasive species 17.

Photo 12 above is tree 17. All of the trunks appear to be occluded and growing together.

Photo 13 above is palms 18 & 19 and tree 21.

Photo 14 above is trees 20 & 21 and palm 19.

The section of tree on tree 21 seen here is very decayed.

Note palm 19 has no trunk.

Photo 15 above is tree 20 an invasive species. See following two photos of the trunk of tree 21.

Photo 16 above is the trunk of tree 21 showing extensive decay.

Photo 17 above is another view of the trunk of tree 21 showing extensive decay. The orange knife is 7 inches in length.

Photo 18 above is tree B & palm 22.

I did not enter the adjacent property to measure the trunk (DBH) nor to inspect the root collar and trunk of tree B therefore DBH is estimated and there is no condition rating.

Photo 19 above is dead palm 23 & palm 24.

Photo 20 above is palms 24, 25 & 26.

Photo 21 above is palm 27 & tree 28.

Photo 22 above is trees 29 & 30. Note the one-sided the canopy of tree 29.

Photo 23 above is trees 29, 30 & 31.

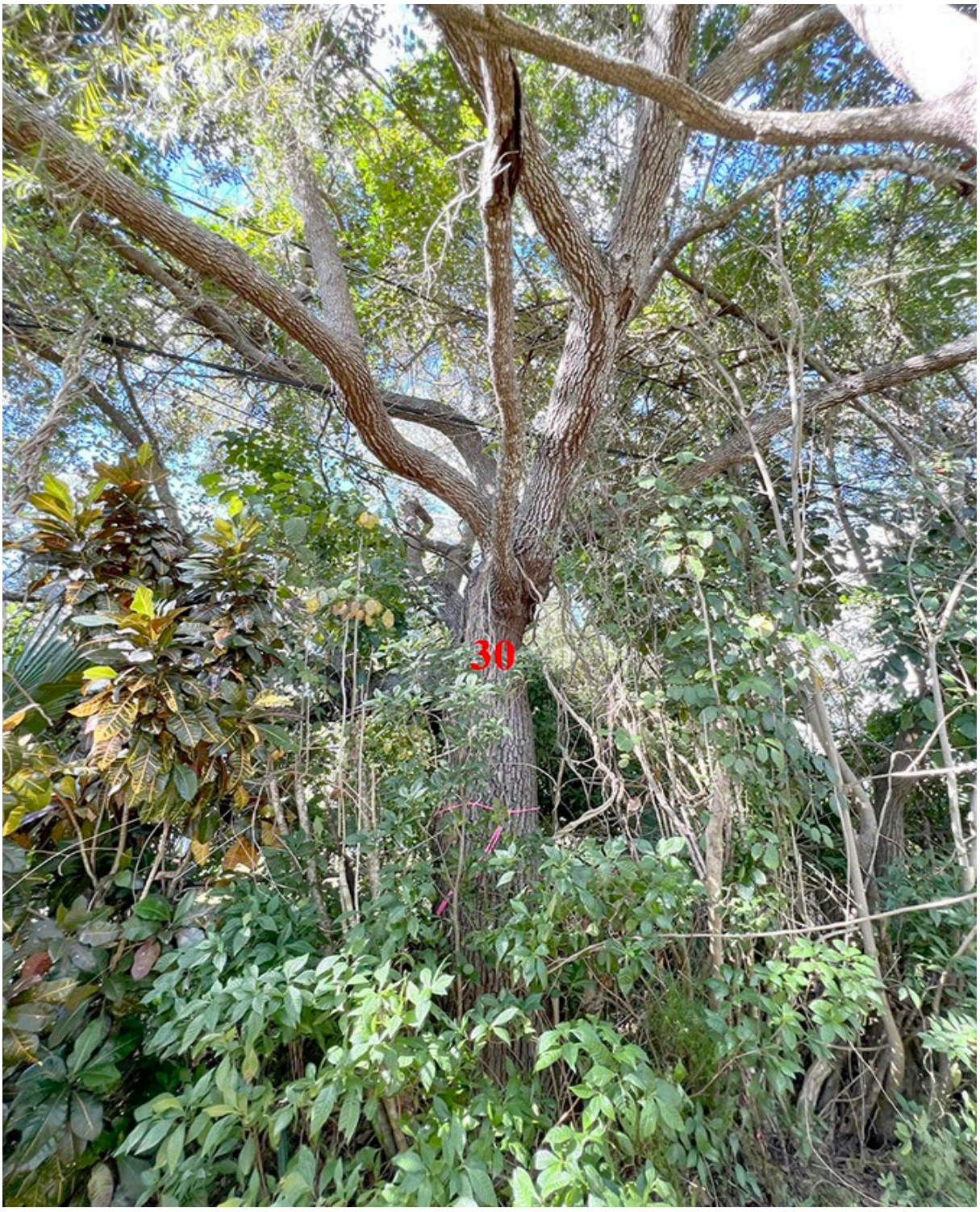


Photo 24 above is tree 30. Note there are powerlines passing through the canopy of this tree.

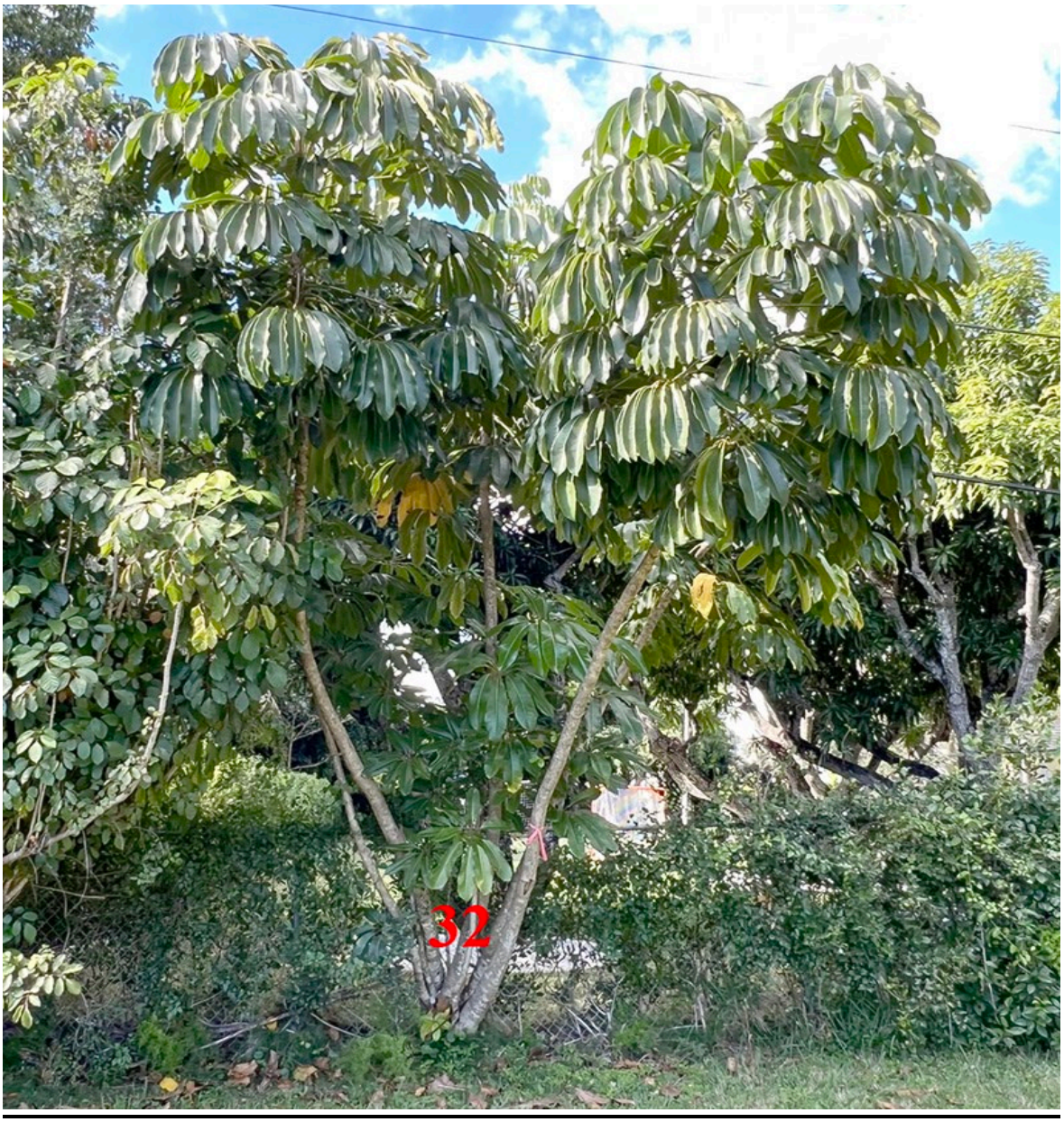


Photo 25 above is invasive species. Note there are powerlines passing through the canopy of this tree.

Photo 26 above is tree 33.

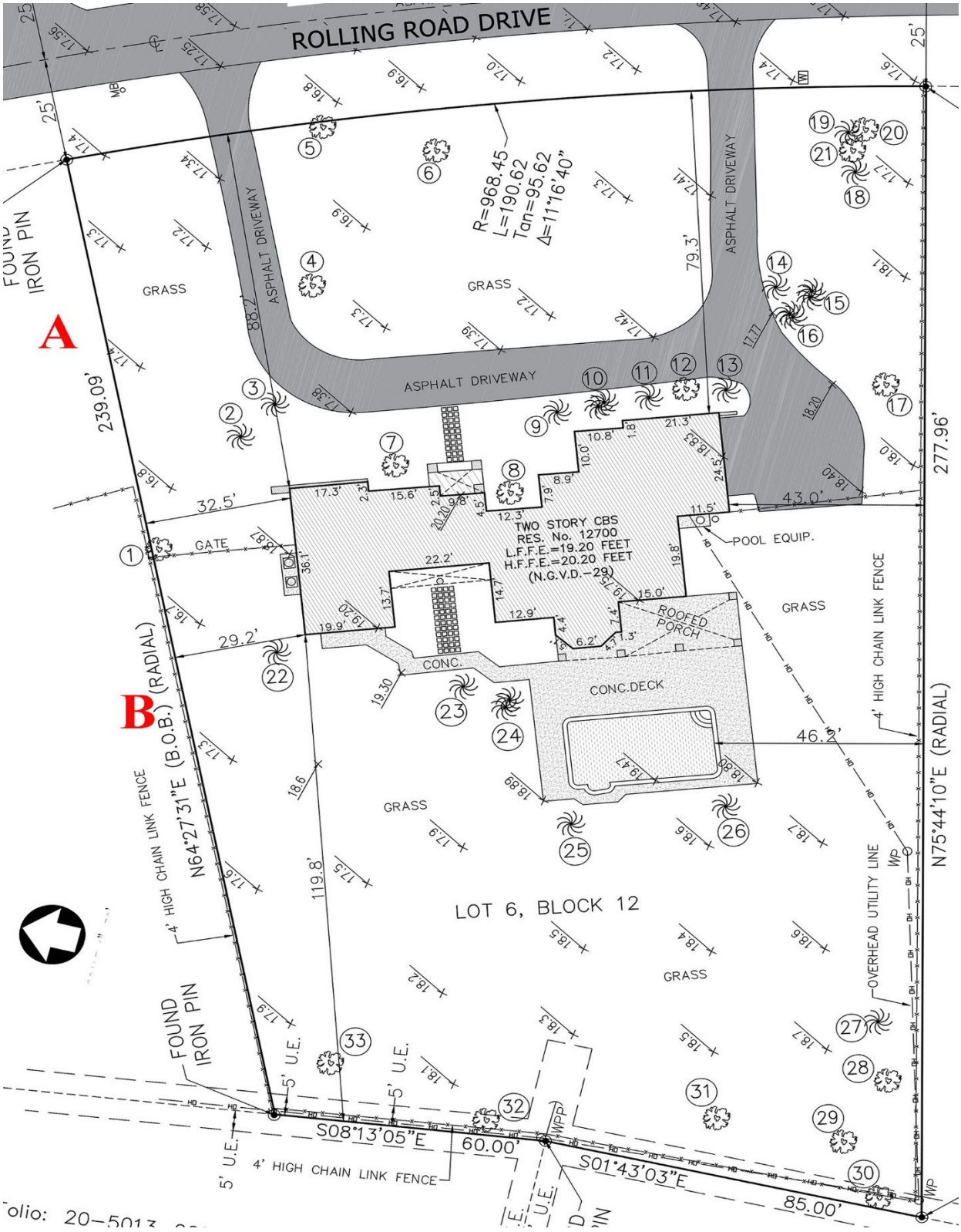
Photo 27 above is tree 33 with poor branch structure and significant decay seen.

Appendix – A – Measurements and condition rating

	Scientific name	Common name	DBH	H/Ct	Canopy	Condition	TPZ
1	Schefflera actinophylla	Umbrella tree	18"	18'	22'	Invasive	6'
2	Syagrus romanzoffiana	Queen palm	8"	24'	18'	Moderate	4'
3	Syagrus romanzoffiana	Queen palm	9"	22'	26'	Good	4'
4	Bucida buceras	Black olive	24"	50'	55'	Good	12'
5	Bursera simaruba	Gumbo limbo	9"	20'	28'	Poor	6'
6	Bucida buceras	Black olive	30"	60'	58'	Good	14'
7	Strelitzia nicolai	White bird of paradise	4"	5'	22'	Good	4'
8	Ravenala madagascariensis	Traveller's tree	0	0	24'	Good	4'
9	Syagrus romanzoffiana	Queen palm	10"	25'	0	Dead	
10	Phoenix roebelenii x 3 tks	Pygmy date palm	13"	9'	20'	Moderate	4'
11	Syagrus romanzoffiana	Queen palm	10"	23'	20'	Good	4'
12	Strelitzia nicolai	White bird of paradise	8"	5'	16'	Good	4'
13	Syagrus romanzoffiana	Queen palm	8"	10'	14'	Poor	4'
14	Ptychosperma elegans	Solitare palm	3"	18'	6'	Good	4'
15	Ptychosperma elegans x 2 tks	Solitare palm	6"	18'	13'	Good	4'
16	Ptychosperma elegans x 2 tks	Solitare palm	6"	18'	12'	Good	4'
17	Schefflera actinophylla	Umbrella tree	84"	30'	40'	Invasive	10'
18	Washingtonia filifera	Washingtonia palm	8"	14'	24'	Good	4'
19	Washingtonia filifera	Washingtonia palm	0	0	14'	Moderate	6'
20	Schefflera actinophylla	Umbrella tree	39"	35'	28'	Invasive	8'
21	Coccoloba uvifera	Seagrape	17"	13'	30'	Poor	8'
22	Syagrus romanzoffiana	Queen palm	9"	26'	28'	Good	4'
23	Phoenix roebelenii	Pygmy date palm	5"	8'	0	Dead	
24	Phoenix roebelenii x 2 tks	Pygmy date palm	8"	8'	14'	Moderate	4'
25	Washingtonia species	Washingtonia palm	8"	18'	6'	Good	4'
26	Washingtonia species	Washingtonia palm	8"	14'	6'	Moderate	4'
27	Sabal palmetto	Sabal palm	0	4'	17'	Good	4'
28	Mangifera indica	Mango	22"	35'	30'	Good	8'
29	Callistemon viminalis	Bottlebrush	11"	20'	24'	Moderate	6'
30	Quercus virginiana	Live oak	25"	60'	46'	Good	14'
31	Callistemon viminalis	Bottlebrush	11"	22'	24'	Moderate	6'
32	Schefflera actinophylla	Umbrella tree	12"	18'	25'	Invasive	6'
33	Mangifera indica	Mango	16"	20'	22'	Poor	6'
A	Cassia fistula	Golden shower	44"	70'	68'	NA	18'
B	Pseudobombax ellipticum	Shaving brush tree	48"	50'	55'	NA	18'

- **TPZ is the radius of the tree protection. The measurement is from the outside of the trunk. The TPZ is equal to the CRZ. If there are curbs, roadway, or adjacent structures the root plate and therefore the CRZ will likely end at that structure or curb.**
- **Canopy diameter is approximate and measured in one direction.**
- **H/Ct is approximate overall height of trees and approximate clear trunk of palms.**
- **DBH is measured at 4.5 feet above grade & rounded-off to the nearest inch.**
- **I recommend the removal of trees and palms that I have rated to be in poor condition.**
- **I did not enter the adjacent property to measure the trunk (DBH) nor to inspect the root collar and trunk of trees A & B therefore DBH is estimated and there is no condition rating.**

Appendix – B – Approximate tree and palm locations



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.

The suitability ratings given in Appendix A are also based upon the Tree Risk Assessment Second Edition of the Best Management Practices a companion publication to the ANSI A300 Part 9 Tree Risk Assessment.

These suitability ratings are:

Extreme: I recommend the IMMEDIATE removal of these trees or palms. I will rate these trees or palms to be in POOR condition in my Appendix A matrix.

High: This corresponds to the POOR rating above where I recommend the removal of these trees or palms.

Moderate: This corresponds to the MODERATE rating in Appendix A.

Low: This corresponds to the GOOD rating in Appendix A.

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.

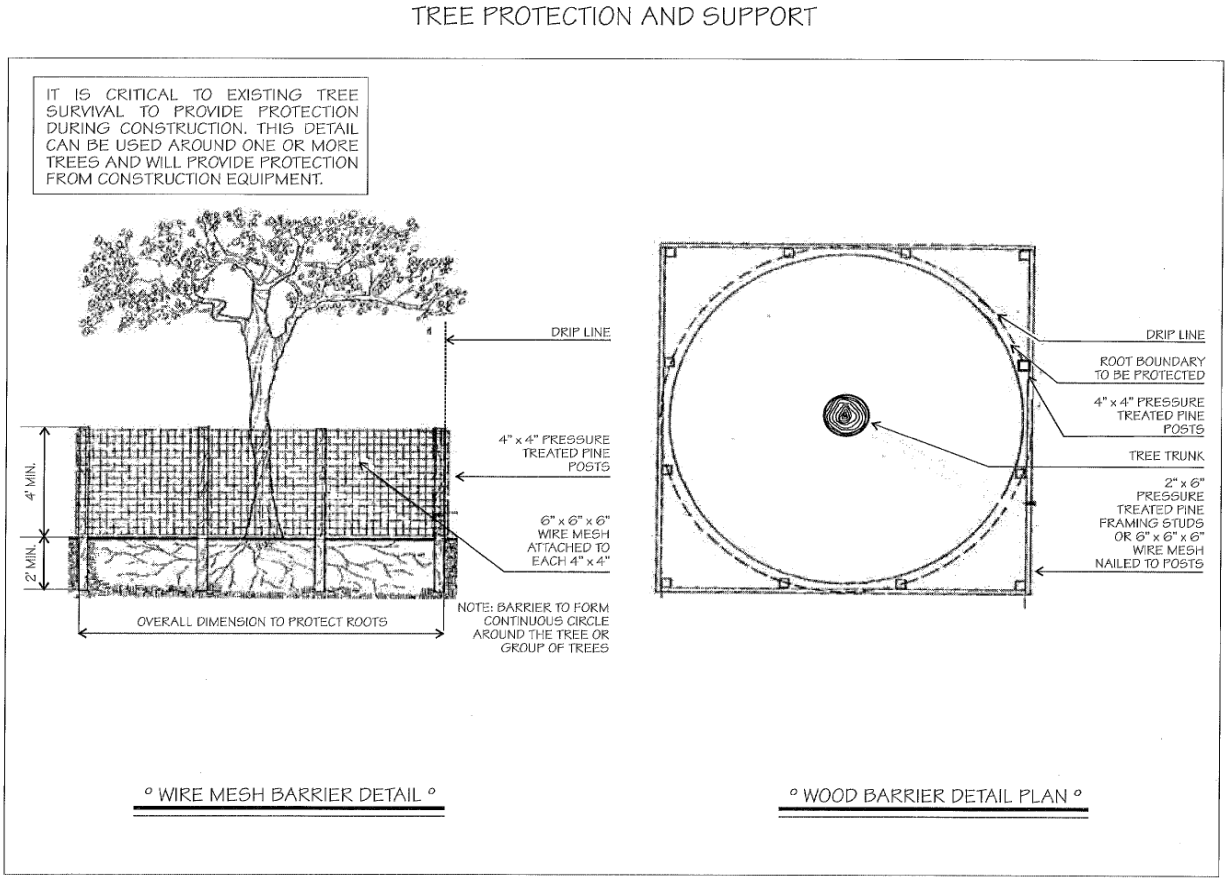
Tree Protection Zone (TPZ): The area surrounding a tree defined by a specified distance, in which excavation and other construction – related activities should be avoided. The TPZ is variable depending on species, factors, age and health of the plant, soil conditions, and proposed construction. The zone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



Appendix – F – Root Management – Special companion publication to the ANSI A300 Part 8: Tree, Shrub, and Other Woody Plant Management-Standard Practices (Root Management)

Consequences of Root Pruning on Tree Stability

Root loss can affect tree health and stability. Cutting roots at a distance greater than six times the trunk diameter (dbh) minimizes the likelihood of affecting both health and stability. At this distance, approximately 25% of the root system would be lost. Cutting root any closer to the tree is more likely to compromise stability.

Linear cuts on one side of a tree can reduce stability when the cut is made at a distance from the trunk that is less than three times the trunk diameter. Severe loss of stability is common when cuts are made at a distance that is less than 1 to 1.5 times the trunk diameter. If a linear cut is made at the trunk, nearly all species will have a reduction in stability.

Appendix – G – 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 – H - 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 almost 50 years.

Signed: Jeff Shimonski

ISA Certification number: FL-1052AM

Dated: January 16, 2023