



ARBORIST REPORT

CITY OF TAMPA – GOLFVIEW FLOODING RELIEF - DESIGN FOR: KISINGER CAMPO & ASSOCIATES

Prepared by:
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Dalton Smith, FL-9314A
02/13/2023

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METHODOLOGY

The Assignment

The objectives of the assignment were limited to the following components:

1. Examine all protected trees and palms. The trees or palms will be numbered with a metallic tag affixed to the stem.
2. Trees having a measured diameter of 32 inches or larger that are of a species listed as a Grand Tree Species (Sec. 27-284.1.2.) qualify as Grand Trees in terms of the definitions of the Code (Sec.27-43).
3. Trees with a measured diameter of 24" to 31" and listed as a Grand Tree Species (Sec. 27-284.1.2.) qualify as a Specimen Tree.
4. Trees having a measured diameter of 5" or larger that are not a Grand Tree or a Specimen Tree and are of a species that is not an "exempt" tree species are Protected Trees.
5. Palms of a protected species having a clear trunk (ct) height of 6' or taller will receive a number.
6. Inspected trees/palms for size, species, trunk diameter, and "tree type" by FDACS Grades and Standards for Nursery Plants. Each inspected protected tree/palm will also be rated for condition and risk by the City of Tampa tree rating criteria. The Arborist will also provide brief pertinent comments on the observations of the Arborist for each tree when notable.
7. Photo-document each Grand Tree and assess them for height, shortest length diameter (SLD) of the crown, longest length diameter (LLD) of the crown, crown spread (CS), crown footprint (CF), and condition rating by Sec. 27-284.1.1(c) of the Code.
8. Indicate the location and species of any "Exempt" tree in terms of the City of Tampa Code on the drawing or survey.
9. Note and tabulate the Arborist's findings for the Protected/Specimen Trees and palms for presentation in a tabulated format in the Arborist Report.
10. Calculate and compile Final Tree Tables detailing the total tree mitigation credits and debits required as detailed in Section D of the City of Tampa Tree and Landscape Technical Manual.

Two field investigations were conducted in February 2023. Each investigation was limited to visually inspecting the subject trees and their surrounding context. Dalton Smith, FL-9314A, with the assistance of an inventory technician, completed the data collection within the limits of the project scope. Richard Peterika, FL-7893B, coordinated all data compilation and permitting interpretation.

The assessment and inventory included all trees above five-inch trunk diameter at breast height (dbh). All trees located within the City right of way and within 20- feet of the right of way were included in the inventory. Metallic tree tags were installed on all trees located on public property within the extent of the project scope. Trees under ten-inch dbh were not tagged to avoid any damage to smaller trees.

Our Techniques

The extent of the corridor where the utility improvements are to be constructed and an existing tree survey were provided to the arborist team. The survey data was imported to a data collection field tablet to conduct the review. The tablet was used to collect observations and photographs as needed. No physical notes were taken. If individual trees not captured in the tree survey were found, they were added to the digital record by generally locating each tree using a Dual XGPS160 SkyPro GPS unit or a Trimble DA2 unit (30cm service) combined with aerial photograph interpretation.

Upon arrival, the team employed the following field review techniques to gather data:

- Species Identification based on training and experience.
- Trunk diameter at breast height (dbh) or 54 inches above the ground, taken either with a Biltmore stick, dbh tape, or visually estimated when not accessible.
- Crown spread measurement, taken with a mechanical wheel from the centroid of the trunk. When ground conditions or thick vegetation precluded wheel use, a tape measure or recent aerial photograph was used to measure spread.
- Condition Rating: graded on a scale of "A" through "F," and the hazard rating is based on a Matheny & Clark 12-point system rating from three to 12.
- Possible pruning impact and amount of pruning required for each tree that would be necessary if 14 feet of clearance would be needed from the edge of the curb for construction activities.

No soil, water, or tissue tests were conducted.

Assessments were one-sided and ground-based. They generally followed ANSI A300 (Part 9)-2017 guidance. However, this assessment is not intended to be used as a tree risk assessment except as described in the City of Tampa Land Development Code Section 27-284.1.1 ("Matheny and Clark" hazard rating format) Within this permitting context, the time frame for the assessment was two years.

When typically single-trunked trees are fused at or near the ground, a pith test is performed to determine whether the tree grouping is separate or a single tree. The pith test is based on a technique discussed in the American Forests Champion Trees Measuring Guidelines Handbook (2019).

To tailor the inventory to jurisdictional requirements, data elements collected varied by tree classification:

- Grand Trees: species, dbh, condition rating, crown spread, and "Risk Evaluation" as described in the City of Tampa Land Development Code Section 27-284.1.1 (foreseeable targets may not be known at the time of assessment)
- Grand trees within 20 feet of the right of way located on private property may not have been fully accessible, resulting in a limited "Risk Evaluation."
- Protected and specimen trees (not palms): species, dbh, condition rating, and hazard rating
- Palms: species, condition rating, and hazard rating

- Invasive trees: species only.
 - Except Camphor, *Cinnamomum camphora*, any Camphor that is above 32-inch dbh is considered a grand tree in the City of Tampa. Camphors also have reduced mitigation requirements.

OBSERVATIONS

The inventory consisted of 162 trees distributed across the corridor within the limits of the project site. Trees within 20 feet of the public right of way were identified and included in the inventory as private property trees.

Location of Trees	Number of Trees
City Right of Way (Public)	113
Private Property	49

Tree Health

The health of the urban tree canopy was indirectly observed and recorded as part of the inventory. Tree condition was recorded as a scale from "A" to "F," A being "excellent" and "F" being "very poor."

Tree Condition	Number of Trees
Excellent	4
Good	34
Fair	95
Poor	17
Very Poor	1
"Exempt," Dead, or Invasive Species	11

Tree health in the corridor followed a standard bell curve where most trees inventoried were classified as "Fair" condition.

Construction Clearance Pruning

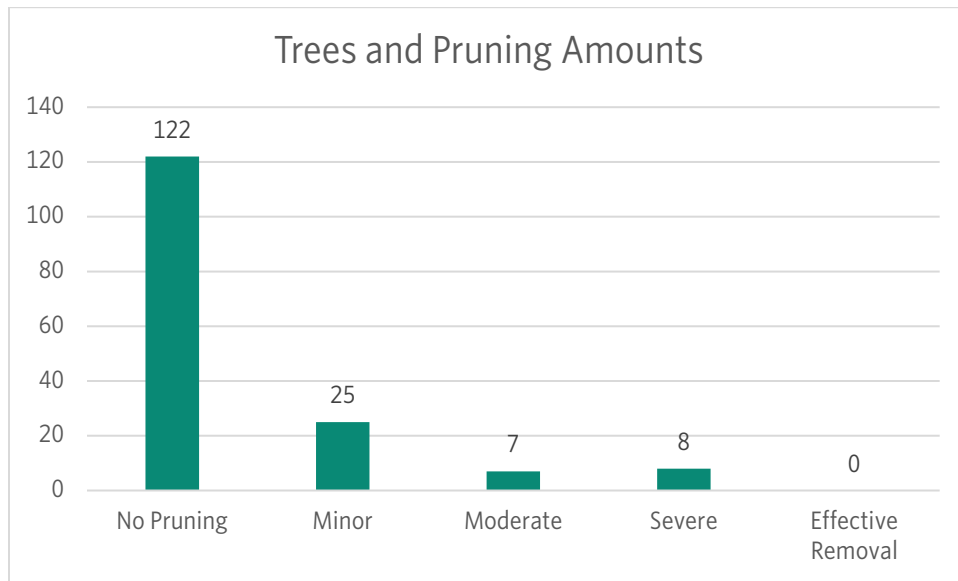
An additional exercise was conducted to assess the amount of pruning required under the assumption that clearance would be needed for construction activities at the back of the curb. Every tree that required pruning to raise the canopy to 14 feet of clearance at the curb was recorded and identified. It was assumed that an improvement would be proposed at the curb for every tree in the inventory for this exercise.

Pruning required is recorded into five categories:

- No Pruning Required - No limbs are below 14 feet from the ground
- Minor Pruning - Pruning required to achieve clearance would only require the removal of 5% or less of the live tree canopy and not affect the form or structure of the tree
- Moderate Pruning - Pruning required to achieve clearance would require the removal of 5-25% of the live tree canopy and may affect the form or structure of the tree

- Severe Pruning – Pruning required to achieve clearance would require the removal of more than 25% of the live tree canopy and would affect the form or structure of tree.
- Effective Removal – Pruning required to achieve clearance would ultimately result in requiring complete removal of the tree, with no option to mitigate for clearance except complete tree removal.

Out of the 162 trees inventoried, only 40 would require pruning to achieve 14 feet of clearance from the curb.



Most of the low clearance limbs and pruning requirements could be avoided or mitigated by offsetting equipment or altering methods to avoid major limbs in conflict with clearance. The pruning amount recorded would be for total clearance extending vertically from the back of curb. If clearance is required for construction, a certified arborist should be present for technical pruning on any tree requiring “moderate” or “severe” pruning to achieve the pruning objective.

RECOMMENDATIONS

Permitting

Section 27-284.3 of the City of Tampa Land Development Code (LDC) defines the permitting requirements for pruning and removing trees.

Generally, tree pruning permit requirements apply to the following situations:

- 1) When pruning any limb on a grand tree,
- 2) When pruning any limb greater than a four-inch diameter (near the base of the limb) on a specimen or protected tree.

However, Sec 27-284.1.3 - Other exemptions exempt limb and root pruning of protected (and specimen) or grand trees in the public right-of-way.

Tree removal permit requirements vary by tree size. Protected trees can be permitted for removal if the tree is subject to construction activity impacts that meet one of the nine listed criteria. These criteria can be reviewed and approved administratively.

Grand trees can be permitted for removal if they are considered "hazardous" or if the tree is rendered "hazardous" due to construction activity impacts. If the removal request is due to a construction activity impact, Variance Review Board (VRB) approval is required. The VRB is a seven-member board, and the review criteria they use is "reasonable reconfiguration," defined in that code section.

Once trees are permitted to be removed, mitigation requirements are applied based on the size of the tree and the FGS category. The assignment of mitigation inches is structured in the Tree Equivalency Table, a matrix of different credits or debits based. For Grand trees, mitigation is calculated from the condition rating, species rating, and canopy area.

Plan Requirements

The construction plans should include several plan components, notes, and details to accomplish tree preservation as required by the Landscape Technical Manual. Plans should include the following:

- 1) Show the location, species, and dbh of all trees within the limits of work
- 2) Show tree information overlaid on the plan sheets so conflicts can be illustrated and evaluated.
 - a. For grand trees within the limits of work, crown spread dimensions must be provided.
- 3) Show tree protection requirements, including:
 - a. The minimum tree protection zone (TPZ),
 - b. The actual tree protection fencing extents,

- i. Tree fencing should be set beyond the TPZ or where existing conditions allow. If minor encroachments into the TPZ, a plant health care response should be recommended to mitigate the construction impact. The specific response varies by impact, but may include construction cushions, root invigoration, testing, supplemental irrigation, fertilization, soil amendments, or monitoring.
 - ii. Major encroachments, typically within three to six times the dbh, may result in an adverse impact requiring reconfiguration of the improvement or removal of the tree.
 - c. Limits of construction canopy pruning,
 - i. A canopy pruning report may be required at 60% or later.
 - d. Extents of root pruning, either selective or non-selective,
 - i. A root pruning report may be required at 60% or later.
 - e. Tree protection notes (provided in the next paragraph), and
 - f. Tree protection details (attached)
- 4) Show the method of excavation within the TPZ
- a. illustrate the extent to which horizontal directional drilling, boring, missile boring, hand digging, air excavation, or similar techniques.

The highlighted elements have been provided in CAD or excel as part of this assignment.

Tree Protection Notes

The design team should include the following tree protection notes in all plan sets:

- 1) Minimum protection standards shall be met for all protected trees before any construction activities on a development site and in the public and private right-of-way, per the tree protection graphics provided.
- 2) No predevelopment conditions change within the approved protective root zone during construction.
- 3) Protective barricades may be removed only to prepare the development site for final landscaping activities. Only non-mechanical techniques may occur within the designated protective root zone during this activity. No alteration(s) of any kind shall be made to any part of the tree (roots, trunk, canopy/crown) other than those approved by the Natural Resources Coordinator or designee as part of the related permit.
- 4) No parking or storing of vehicles, equipment, or materials is permitted within the minimum protective area at any time.
- 5) No site clearing or grading is permitted within the minimum protective area other than those changes approved by the Natural Resources Coordinator or designee as part of the related permit.
- 6) By Section 22-328, the Contractor shall adhere to the protection and pruning standards outlined in chapter 27-284 and ANSI standards for protected, specimen, and grand tree species, located in the public rights-of-way and on private property. A provider shall not prune, remove, or irreversibly damage any

protected or grand tree, as defined in chapter 27-284 of this Code, unless a permit issued by the city authorizes such activity.

- 7) All root pruning shall be overseen and approved by an arborist before the pre-construction site inspection.
- 8) All roots must be severed cleanly at the protective root zone of protected and grand trees to prevent root damage.
- 9) Root pruning must be performed using equipment specifically designed for root pruning, such as hand pruners, loppers, hand saws, reciprocating saws, oscillating saws, or small chain saws or mechanical root cutting equipment (i.e., Vermeer). Stump grinders are not acceptable.
- 10) Root pruning must be performed before construction activities are inspected before requesting inspections. Contact Brian Knox at 813-274-3187.

Reporting Hazardous Grand Trees

The tree with the tag number 407 was included in the inventory and was assessed with the overall condition and hazard rating of a D-8. This Grand tree is classified as a hazardous tree and is located within the City right of way. This tree should be reported to the City's urban forestry department for further assessment.

CERTIFICATION OF PERFORMANCE

I, Dalton Smith, certify that:

- I have personally assessed the trees and the property referred to in this inventory and have stated my findings accurately. The extent of the inventory is stated in the Assignment Notes.
- I have no current or prospective interest in the vegetation or the property subject of this inventory and have no personal interest or bias concerning the parties involved.
- The analysis, opinions, and conclusions stated herein are my own and are based on current scientific procedures and facts.
- My analysis, opinions, and conclusions were developed and prepared according to commonly accepted arboricultural practices.
- No one provided significant professional assistance to me except as indicated within the inventory.
- My compensation is not contingent upon reporting a predetermined conclusion that favors the cause of the client or any other party nor upon the assessment results, the attainment of stipulated results, or the occurrence of any subsequent events.

I further certify that I am a member in good standing of the International Society of Arboriculture.



Signed by: DALTON SMITH

Dark Moss LLC, 308 E 7th Ave Tampa, Florida 33602
Dalton Smith ISA-FL #9314A

This document has been digitally signed and sealed by: RICHARD PETERIKA

Printed copies of this document are not considered signed and sealed. The signature must be verified on the electronic documents.

Dark Moss LLC, 308 E 7th Ave Tampa, Florida 33602
Richard Peterika, ISA FL-5893B, RCA #641

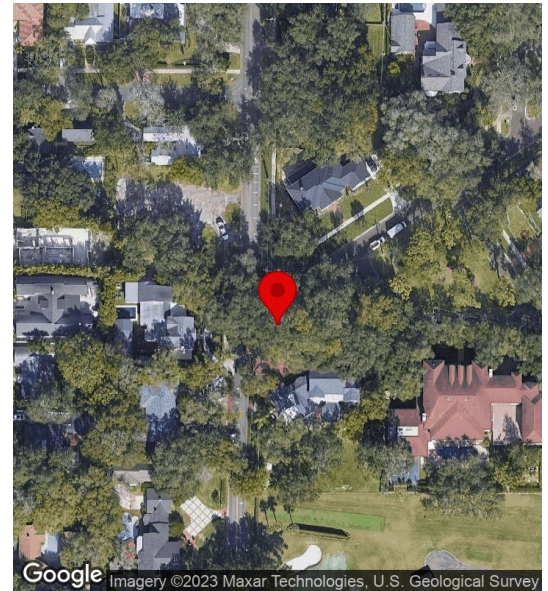
EXHIBIT A – GRAND TREE DISPOSITION LIST

(pages inserted as pdf attachments, disregard page numbering)

Num	Disposition	Symbo	Botanical Name	DBH	Hazard	CR-HAZ	N-S	E-W	CS	CF	SR	Dimun.	RCF	Credits	Debits
15	Preserved	QV	Quercus virginiana	50	hazard	D-8	78	67	72.5	4128.2	0.9	40%	1507.0	-9.7	0.0
158	Private Property Tree	QL	Quercus laurifolia	48	hazard	D-6	64	55	59.5	2780.5	0.7	40%	792.0	-5.1	0.0
2	Preserved	QV	Quercus virginiana	45	non	C-6	93	67	80.0	5026.5	0.9	80%	3393.0	-21.9	0.0
11	Preserved	QV	Quercus virginiana	44	non	B-5	73	80	76.5	4596.3	0.9	90%	3772.0	-24.3	0.0
13	Preserved	QV	Quercus virginiana	34	non	C-5	72	70	71.0	3959.2	0.9	80%	2672.0	-17.2	0.0
19	Private Property Tree	QV	Quercus virginiana	44	non	C-5	87	74	80.5	5089.6	0.9	80%	3478.0	-22.4	0.0
20	Preserved	QV	Quercus virginiana	65	non	C-6	78	82	80.0	5026.5	0.9	80%	3393.0	-21.9	0.0
27	Private Property Tree	QV	Quercus virginiana	33	non	C-7	85	60	72.5	4128.2	0.9	80%	2825.0	-18.2	0.0
43	Preserved	QV	Quercus virginiana	35	non	C-7	76	70	73.0	4185.4	0.9	80%	2825.0	-18.2	0.0
44	Private Property Tree	QV	Quercus virginiana	35	non	B-6	83	89	86.0	5808.8	0.9	90%	4705.0	-30.4	0.0
46	Preserved	QV	Quercus virginiana	34	non	C-5	56	51	53.5	2248.0	0.9	80%	1546.0	-10.0	0.0
68	Preserved	QV	Quercus virginiana	32	non	C-7	57	70	63.5	3166.9	0.9	80%	2171.0	-14.0	0.0
69	Preserved	QV	Quercus virginiana	61	non	C-5	95	96	95.5	7163.0	0.9	80%	4886.0	-31.5	0.0
75	Private Property Tree	QV	Quercus virginiana	33	non	B-4	76	74	75.0	4417.9	0.9	90%	3579.0	-23.1	0.0
97	Preserved	QV	Quercus virginiana	48	non	C-5	69	77	73.0	4185.4	0.9	80%	2825.0	-18.2	0.0
116	Preserved	QV	Quercus virginiana	36	non	C-5	63	80	71.5	4015.2	0.9	80%	2749.0	-17.7	0.0
135	Private Property Tree	QL	Quercus laurifolia	34	non	C-7	55	59	57.0	2551.8	0.7	80%	1340.0	-8.6	0.0
142	Private Property Tree	PE	Pinus elliotii	32	non	C-5	41	37	39.0	1194.6	0.7	80%	627.0	-4.0	0.0
147	Preserved	QL	Quercus laurifolia	34	non	C-8	45	69	57.0	2551.8	0.7	80%	1340.0	-8.6	0.0
155	Private Property Tree	QV	Quercus virginiana	36	non	C-5	72	71	71.5	4015.2	0.9	80%	2749.0	-17.7	0.0
161	Private Property Tree	QV	Quercus virginiana	40	non	B-6	103	77	90.0	6361.7	0.9	90%	5153.0	-33.2	0.0

#2 GRAND

45" SOUTHERN LIVE OAK



Location

27.9312946, -82.50156795

N-S x E-W Crown Spread (CS)

93' x 67'

80-ft (CS) = 5027 SF (CF) * 0.75 (CR) * 0.9 (SR) = 3393 SF (RCF)

Level 1 Notes

ROW oak in large planting space. Utility conflicts on surrounding 45% of canopy. Restricted growth within.

Factor 1 - Roots

A/B Notes: Conflict with curb to north
Defects: Compaction

Factor 2 - Trunk

A/B Notes: Codominant at 8 feet
Defects: Codominant Stems without Inclusion

Factor 3 - Scaffold Branches

B/C Notes: South leader becomes tridominant with inclusion present. High aspect ratios. Utility pruned. Lots of sprouting along tertiary branches.
Defects: Codominant Branches (V-Shape) - Deadwood - Adventitious Branches (no decay present)

Factors 4 & 5 - Crown

B/B Notes: Thinning crown
Defects: Dieback (minor) - Defoliation

Health - Level 1

B - Good

Structure - Level 1

C - Fair

Form - Level 1

B - Good

Overall Condition Rating

C - Fair - Major Problems

Failure Potential

2-Medium

Defective Part Size

2-6" to 18"

Target Rating

2-Intermittent Use

Live Crown Ratio

61 to 80%

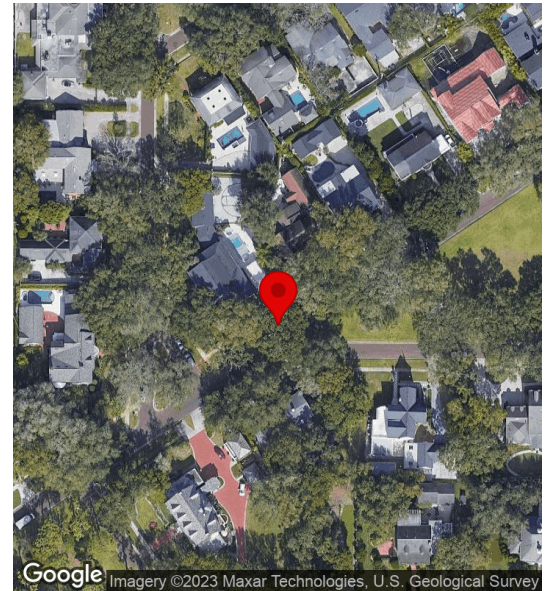
Debits or Credits

21.9 tree(s)

C-6

#11 GRAND

44" SOUTHERN LIVE OAK



Google Imagery ©2023 Maxar Technologies, U.S. Geological Survey

Location

27.9322336, -82.50020937

N-S x E-W Crown Spread (CS)

73' x 80'

77-ft (CS) = 4657 SF (CF) * 0.9 (CR) * 0.9 (SR) = 3772 SF (RCF)

Level 1 Notes

ROW tree with large canopy. Maintained from having limbs over house to the north. Tree with high clearance of any secondary branching.

Factor 1 - Roots

A/B Notes: Wide planting strip, good root flare
Defects: Restriction to Growth

Factor 2 - Trunk

A/B Notes: Clear trunk to 14 feet from ground. No inclusion at decurrance
Defects: Tridominant stems

Factor 3 - Scaffold Branches

A/B Notes: All pruning cuts made in past have proper wound closure. Restriction in canopy growth to the east from adjacent tree canopy. Minor advantageous sprouting
Defects: Deadwood

Factors 4 & 5 - Crown

B/A Notes: Minor thinning
Defects: Dieback (minor)

Health - Level 1

B - Good

Structure - Level 1

B - Good

Form - Level 1

A - Excellent

Overall Condition Rating

B - Good - Minor Problems

Failure Potential

2-Medium

Defective Part Size

1-less than 6"

Target Rating

2-Intermittent Use

Live Crown Ratio

41 to 60%

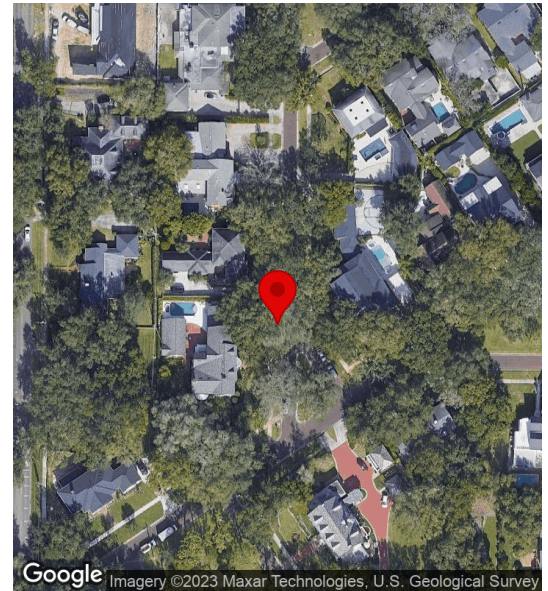
Debits or Credits

24.3 tree(s)

B-5

#13 GRAND

34" SOUTHERN LIVE OAK



Google Imagery ©2023 Maxar Technologies, U.S. Geological Survey

Location

27.9322732, -82.50073033

N-S x E-W Crown Spread (CS)

72' x 70'

71-ft (CS) = 3959 SF (CF) * 0.75 (CR) * 0.9 (SR) = 2672 SF (RCF)

Level 1 Notes

ROW tree causing major conflict with curb and street. Half of canopy restricted due to oak to the west.

Factor 1 - Roots

B/C Notes: Root flare above grade, restricted in planting strip.

Defects: Compaction - Restriction to Growth

Factor 2 - Trunk

A/B Notes: Clear trunk to 14 feet

Defects: Codominant Stems without Inclusion

Factor 3 - Scaffold Branches

B/C Notes: All branches growing to the east.

Defects: Unbalanced Crown - Deadwood

Factors 4 & 5 - Crown

C/A Notes: Dieback at top of canopy

Defects: Dieback (minor)

Health - Level 1

B - Good

Structure - Level 1

B - Good

Form - Level 1

C - Fair

Overall Condition Rating

C - Fair - Major Problems

Failure Potential

2-Medium

Defective Part Size

1-less than 6"

Target Rating

2-Intermittent Use

Live Crown Ratio

41 to 60%

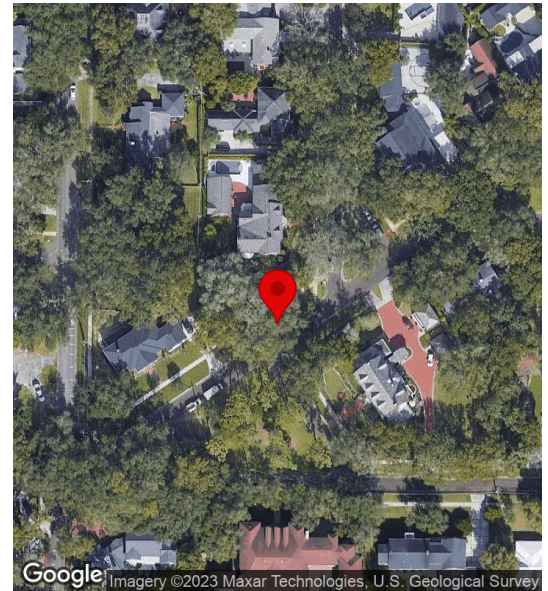
Debits or Credits

17.2 tree(s)

C-5

#15 GRAND

50" SOUTHERN LIVE OAK



Location

27.93181989, -82.50089633

N-S x E-W Crown Spread (CS)

78' x 67'

73-ft (CS) = 4185 SF (CF) * 0.4 (CR) * 0.9 (SR) = 1507 SF (RCF)

Level 1 Notes

ROW tree leaning over the road with multiple defects

Factor 1 - Roots

C/C Notes: 20% of root flare missing from large wound of trunk

Defects: Compaction - Mechanical Injury - Visually obscured

Factor 2 - Trunk

C/D Notes: Large wound on north side of tree, wound closure with extensive rams horning with exposed heartwood. Inclusion bulge splitting with 5 feet long crack on either side of the branch union on trunk. Leaning with all weight on opposite side of missing trunk portion. Minor decay in heartwood at base.

Defects: Codominant Stems with inclusion - Cracking - Cavities - Lean (corrected) - Splitting - Wound (major) - Inclusion Bulge

Factor 3 - Scaffold Branches

B/D Notes: 24 inch branch to the south with large crack, being hit by vehicles and is overextended.

Defects: Unbalanced Crown - Broken or Hanging Branches - Cracks

Factors 4 & 5 - Crown

B/A Defects: Dieback (minor)

Health - Level 1

B - Good

Structure - Level 1

D - Poor

Form - Level 1

C - Fair

Overall Condition Rating

D - Poor - Extreme Problems

Failure Potential

3-High

Defective Part Size

3-18" to 30"

Target Rating

2-Intermittent Use

Live Crown Ratio

61 to 80%

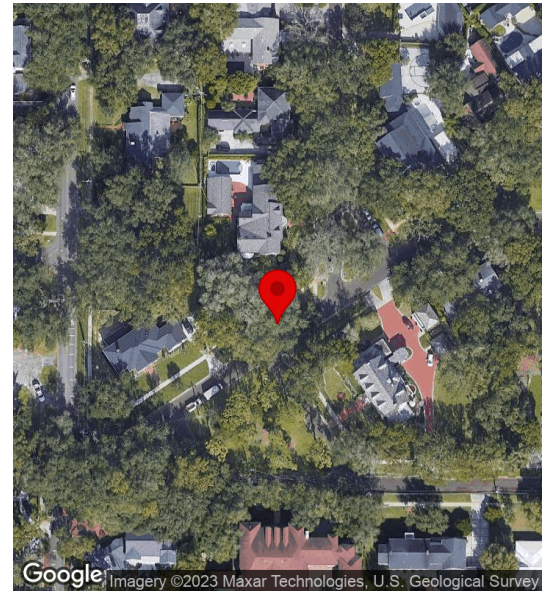
Debits or Credits

9.7 tree(s)

D-8

#15 GRAND

50" SOUTHERN LIVE OAK



Location

27.93181989, -82.50089633

N-S x E-W Crown Spread (CS)

78' x 67'

73-ft (CS) = 4185 SF (CF) * 0.4 (CR) * 0.9 (SR) = 1507 SF (RCF)

Level 1 Notes

ROW tree leaning over the road with multiple defects

Factor 1 - Roots

C/C Notes: 20% of root flare missing from large wound of trunk

Defects: Compaction - Mechanical Injury - Visually obscured

Factor 2 - Trunk

C/D Notes: Large wound on north side of tree, wound closure with extensive rams horning with exposed heartwood. Inclusion bulge splitting with 5 feet long crack on either side of the branch union on trunk. Leaning with all weight on opposite side of missing trunk portion. Minor decay in heartwood at base.

Defects: Codominant Stems with inclusion - Cracking - Cavities - Lean (corrected) - Splitting - Wound (major) - Inclusion Bulge

Factor 3 - Scaffold Branches

B/D Notes: 24 inch branch to the south with large crack, being hit by vehicles and is overextended.

Defects: Unbalanced Crown - Broken or Hanging Branches - Cracks

Factors 4 & 5 - Crown

B/A Defects: Dieback (minor)

Health - Level 1

B - Good

Structure - Level 1

D - Poor

Form - Level 1

C - Fair

Overall Condition Rating

D - Poor - Extreme Problems

Failure Potential

3-High

Defective Part Size

3-18" to 30"

Target Rating

2-Intermittent Use

Live Crown Ratio

61 to 80%

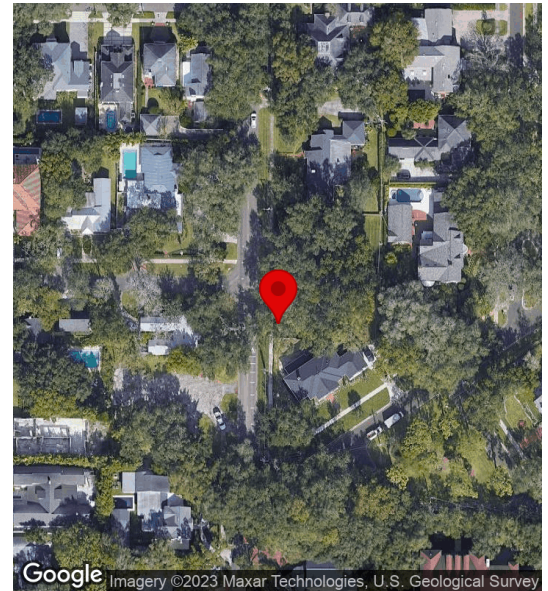
Debits or Credits

9.7 tree(s)

D-8

#20 GRAND

65" SOUTHERN LIVE OAK



Location

27.93190963, -82.50155599

N-S x E-W Crown Spread (CS)

78' x 82'

80-ft (CS) = 5027 SF (CF) * 0.75 (CR) * 0.9 (SR) = 3393 SF (RCF)

Level 1 Notes

Private property, impact to sidewalk

Factor 1 - Roots

B/B Notes: Sidewalk to west, driveway to the north within 6 feet of root flare

Defects: Compaction

Factor 2 - Trunk

B/C Notes: Multi dominant, six leaders from 5 feet. Inclusion present between two stems to the west.

Defects: Codominant Stems with inclusion

Factor 3 - Scaffold Branches

B/C Notes: Due to utility pruning, two main branches under lines are overextended with heavy sprouting present. Void in canopy between them and rest of tree.

Defects: Adventitious Branches (no decay present)
- Pruning Issues

Factors 4 & 5 - Crown

B/A Notes: Narrow canopy because of vertical growth pattern of leaders. Pruning cuts made on north side of tree.

Defects: Dieback (minor)

Health - Level 1

B - Good

Structure - Level 1

C - Fair

Form - Level 1

C - Fair

Overall Condition Rating

C - Fair - Major Problems

Failure Potential

2-Medium

Defective Part Size

2-6" to 18"

Target Rating

2-Intermittent Use

Live Crown Ratio

61 to 80%

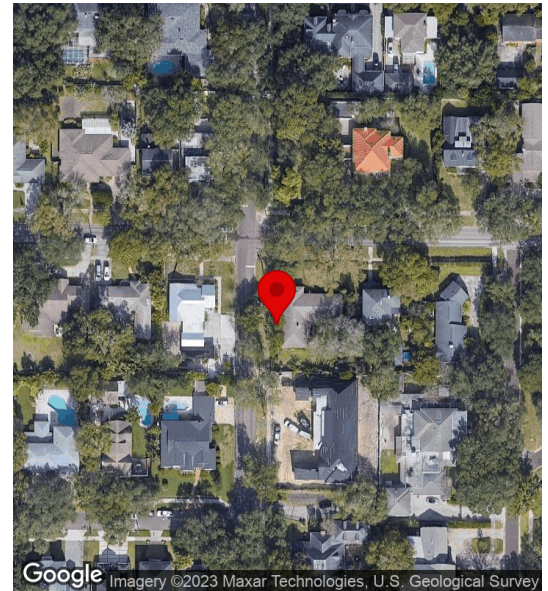
Debits or Credits

21.9 tree(s)

C-6

#27 GRAND

33" SOUTHERN LIVE OAK



Location

27.93357689, -82.50154274

N-S x E-W Crown Spread (CS)

85' x 60'

73-ft (CS) = 4185 SF (CF) * 0.75 (CR) * 0.9 (SR) = 2825 SF (RCF)

Level 1 Notes

Wishbone from utility pruning, multiple pruning cuts and sprouting

Health - Level 1

C - Fair

Structure - Level 1

C - Fair

Form - Level 1

C - Fair

Overall Condition Rating

C - Fair - Major Problems

Failure Potential

2-Medium

Defective Part Size

1-less than 6"

Target Rating

4-Constant-use, structures

Live Crown Ratio

41 to 60%

Debits or Credits

18.2 tree(s)

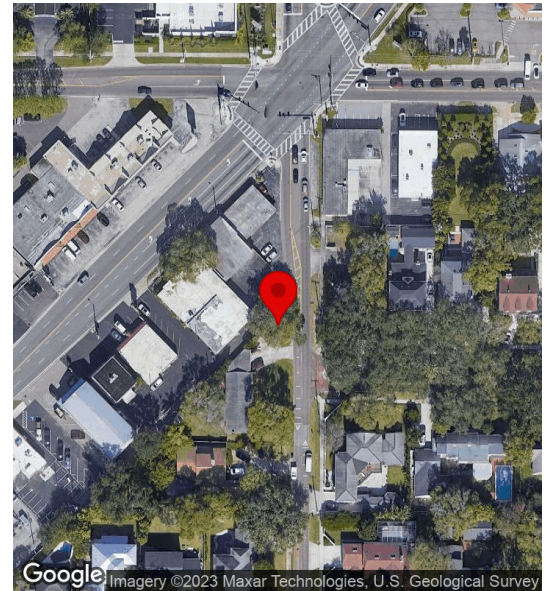
C-7

SCPA TREE EVALUATION REPORT

GOLFVIEW

#43 GRAND

35" SOUTHERN LIVE OAK



Location

27.9367596, -82.50171701

N-S x E-W Crown Spread (CS)

76' x 70'

73-ft (CS) = 4185 SF (CF) * 0.75 (CR) * 0.9 (SR) = 2825 SF (RCF)

Level 1 Notes

Private property. Close to alleyway. Competing for canopy space with adjacent laurel

Health - Level 1

B - Good

Structure - Level 1

C - Fair

Form - Level 1

C - Fair

Overall Condition Rating

C - Fair - Major Problems

Failure Potential

2-Medium

Defective Part Size

1-less than 6"

Target Rating

4-Constant-use, structures

Live Crown Ratio

81 to 100%

Debits or Credits

18.2 tree(s)

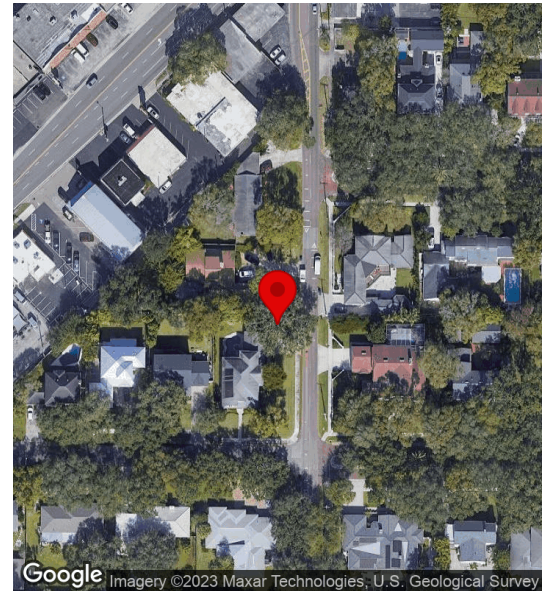
C-7

SCPA TREE EVALUATION REPORT

GOLFVIEW

#44 GRAND

35" SOUTHERN LIVE OAK



Location

27.93612544, -82.5017507

N-S x E-W Crown Spread (CS)

83' x 89'

86-ft (CS) = 5809 SF (CF) * 0.9 (CR) * 0.9 (SR) = 4705 SF (RCF)

Level 1 Notes

Private property. Great form

Health - Level 1

A - Excellent

Structure - Level 1

B - Good

Form - Level 1

A - Excellent

Overall Condition Rating

B - Good - Minor Problems

Failure Potential

1-Low

Defective Part Size

1-less than 6"

Target Rating

4-Constant-use, structures

Live Crown Ratio

41 to 60%

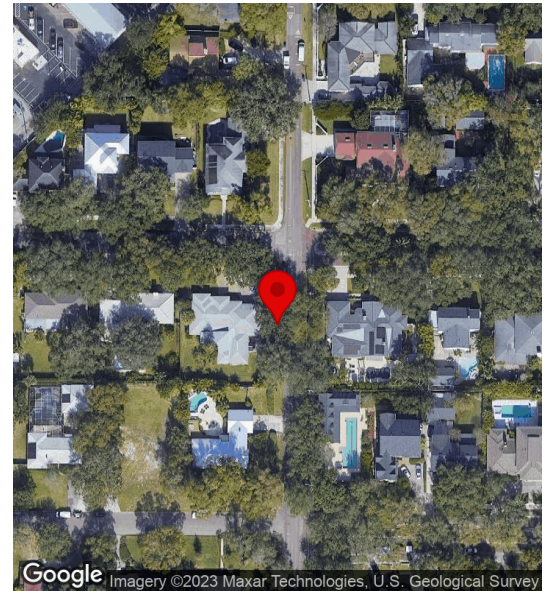
Debits or Credits

30.4 tree(s)

B-6

#46 GRAND

34" SOUTHERN LIVE OAK



Google Imagery ©2023 Maxar Technologies, U.S. Geological Survey

Location

27.93543808, -82.50169047

N-S x E-W Crown Spread (CS)

56' x 51'

54-ft (CS) = 2290 SF (CF) * 0.75 (CR) * 0.9 (SR) = 1546 SF (RCF)

Level 1 Notes

ROW tree maintained with multiple pruning cuts over time. Narrow canopy

Factor 1 - Roots

A/B Notes: Road to the east, large room in yard
Defects: Compaction

Factor 2 - Trunk

B/C Notes: Multi dominant from 6 feet from ground. Inclusion present between all stems. Half of stems pruned out with bulge around past cuts from wound closure.
Defects: Codominant Stems with inclusion

Factor 3 - Scaffold Branches

B/C Notes: Many vertical branches
Defects: Codominant Branches (V-Shape) - Pruning Issues - Adventitious Branches (no decay present)

Factors 4 & 5 - Crown

B/B Notes: Minor thinning
Defects: Dieback (minor) - Defoliation

Health - Level 1

C - Fair

Structure - Level 1

C - Fair

Form - Level 1

C - Fair

Overall Condition Rating

C - Fair - Major Problems

Failure Potential

2-Medium

Defective Part Size

1-less than 6"

Target Rating

2-Intermittent Use

Live Crown Ratio

41 to 60%

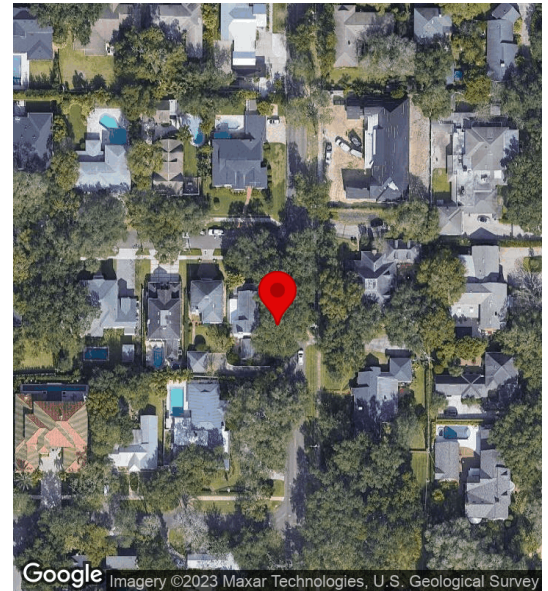
Debits or Credits

10 tree(s)

C-5

#68 GRAND

32" SOUTHERN LIVE OAK



Google Imagery ©2023 Maxar Technologies, U.S. Geological Survey

Location

27.93266963, -82.50172847

N-S x E-W Crown Spread (CS)

57' x 70'

64-ft (CS) = 3217 SF (CF) * 0.75 (CR) * 0.9 (SR) = 2171 SF (RCF)

Level 1 Notes

ROW tree with all growth towards the south. Great clearance over the road. Competing for canopy space with neighboring oaks.

Factor 1 - Roots

B/B Notes: House and street within dripline. Good root flare

Defects: Compaction

Factor 2 - Trunk

A/C Notes: Co dominant at 8 feet

Defects: Codominant Stems with inclusion

Factor 3 - Scaffold Branches

B/C Notes: Large stem to the south growing outwards, high aspect ratio and becoming overextended.

Defects: Deadwood - Poor Aspect Ratio - Unbalanced Crown

Factors 4 & 5 - Crown

B/A Notes: Unbalanced

Defects: Dieback (minor)

Health - Level 1

B - Good

Structure - Level 1

C - Fair

Form - Level 1

C - Fair

Overall Condition Rating

C - Fair - Major Problems

Failure Potential

2-Medium

Defective Part Size

1-less than 6"

Target Rating

4-Constant-use, structures

Live Crown Ratio

61 to 80%

Debits or Credits

14 tree(s)

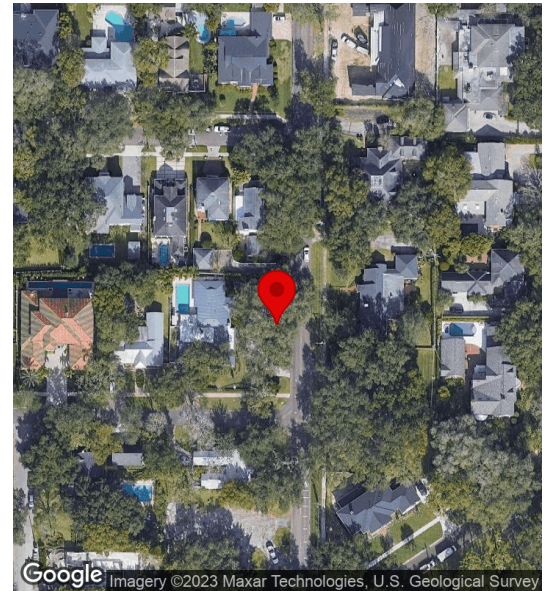
C-7

SCPA TREE EVALUATION REPORT

GOLFVIEW

#69 GRAND

61" SOUTHERN LIVE OAK



Location

27.93233923, -82.50175227

N-S x E-W Crown Spread (CS)

95' x 96'

96-ft (CS) = 7238 SF (CF) * 0.75 (CR) * 0.9 (SR) = 4886 SF (RCF)

Level 1 Notes

Private property, limited assessment. Comprised of two stems from ground. Main central tree could be grand tree by itself with excellent form and structure. Inclusion visible at union. Suppressed stem growing with bowed form over the road. Further assessment needed to know likelihood of full failure of smaller stem. Would increase hazard rating. Preventative mitigation possible.

Health - Level 1

B - Good

Structure - Level 1

C - Fair

Form - Level 1

B - Good

Overall Condition Rating

C - Fair - Major Problems

Failure Potential

2-Medium

Defective Part Size

1-less than 6"

Target Rating

2-Intermittent Use

Live Crown Ratio

81 to 100%

Debits or Credits

31.5 tree(s)

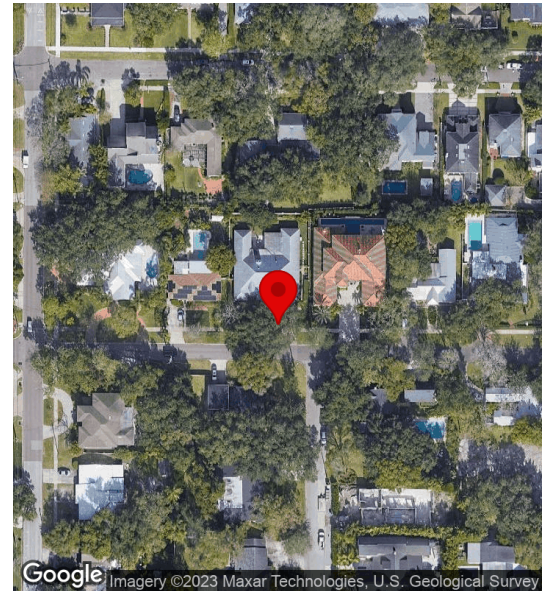
C-5

SCPA TREE EVALUATION REPORT

GOLFVIEW

#75 GRAND

33" SOUTHERN LIVE OAK



Location

27.93213455, -82.50281613

N-S x E-W Crown Spread (CS)

76' x 74'

75-ft (CS) = 4418 SF (CF) * 0.9 (CR) * 0.9 (SR) = 3579 SF (RCF)

Level 1 Notes

Private, limited assessment. Minor inclusion

Health - Level 1

A - Excellent

Structure - Level 1

C - Fair

Form - Level 1

B - Good

Overall Condition Rating

B - Good - Minor Problems

Simple Hazard Rating

1-1-2 Low VUA Tree

Live Crown Ratio

61 to 80%

Debits or Credits

23.1 tree(s)

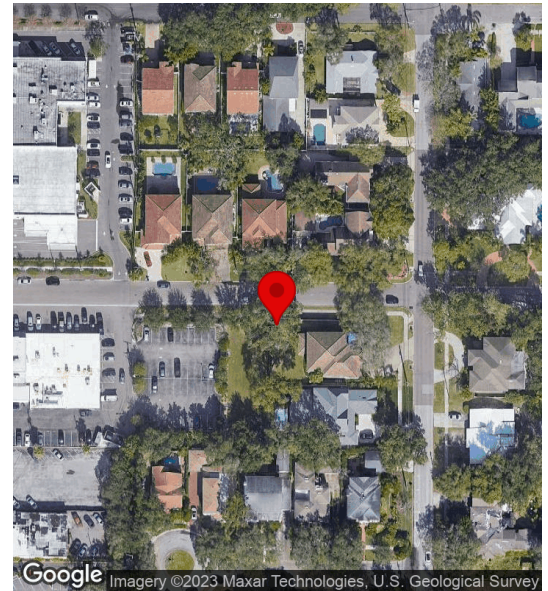
B-4

SCPA TREE EVALUATION REPORT

GOLFVIEW

#97 GRAND

48" SOUTHERN LIVE OAK



Location

27.93195348, -82.50424771

N-S x E-W Crown Spread (CS)

69' x 77'

73-ft (CS) = 4185 SF (CF) * 0.75 (CR) * 0.9 (SR) = 2825 SF (RCF)

Level 1 Notes

Private

Health - Level 1

B - Good

Structure - Level 1

C - Fair

Form - Level 1

C - Fair

Overall Condition Rating

C - Fair - Major Problems

Failure Potential

2-Medium

Defective Part Size

1-less than 6"

Target Rating

2-Intermittent Use

Live Crown Ratio

61 to 80%

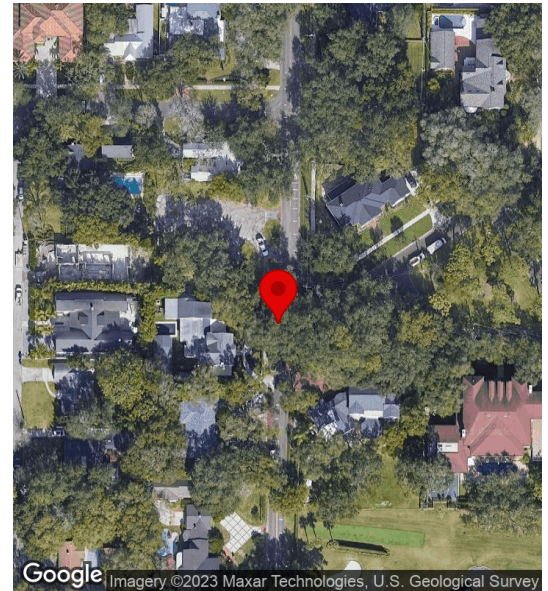
Debits or Credits

18.2 tree(s)

C-5

#116 GRAND

36" SOUTHERN LIVE OAK



Location

27.93135065, -82.50171041

N-S x E-W Crown Spread (CS)

63' x 80'

72-ft (CS) = 4072 SF (CF) * 0.75 (CR) * 0.9 (SR) = 2749 SF (RCF)

Level 1 Notes

ROW tree shading road and vertical structure, good clearance over road.

Factor 1 - Roots

A/B Notes: Root flare in close proximity to driveway and street

Defects: Compaction - Restriction to Growth

Factor 2 - Trunk

B/C Notes: Multi dominant stems at 10 feet from ground. Main leader growing as central leader. Minor inclusion on one union.

Defects: Codominant Stems with inclusion

Factor 3 - Scaffold Branches

B/C Notes: Two central branches, good shape to crown except for to the east, competing with another tree.

Defects: Codominant Branches (V-Shape) - Deadwood - Adventitious Branches (no decay present)

Factors 4 & 5 - Crown

B/A Defects: Dieback (minor)

Health - Level 1

B - Good

Structure - Level 1

C - Fair

Form - Level 1

B - Good

Overall Condition Rating

C - Fair - Major Problems

Failure Potential

2-Medium

Defective Part Size

1-less than 6"

Target Rating

2-Intermittent Use

Live Crown Ratio

41 to 60%

Debits or Credits

17.7 tree(s)

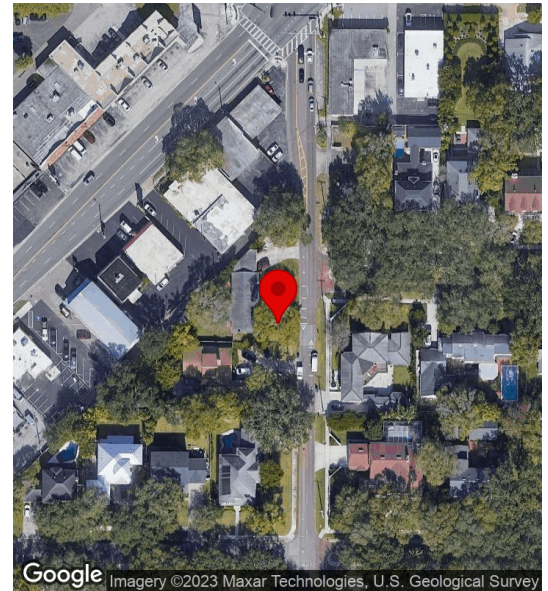
C-5

SCPA TREE EVALUATION REPORT

GOLFVIEW

#135 GRAND

34" LAUREL OAK



Location

27.9364400433, -82.5017381832

N-S x E-W Crown Spread (CS)

55' x 59'

57-ft (CS) = 2552 SF (CF) * 0.75 (CR) * 0.7 (SR) = 1340 SF (RCF)

Level 1 Notes

Mature, declining

Health - Level 1

C - Fair

Structure - Level 1

C - Fair

Form - Level 1

C - Fair

Overall Condition Rating

C - Fair - Major Problems

Failure Potential

2-Medium

Defective Part Size

1-less than 6"

Target Rating

4-Constant-use, structures

Live Crown Ratio

41 to 60%

Debits or Credits

8.6 tree(s)

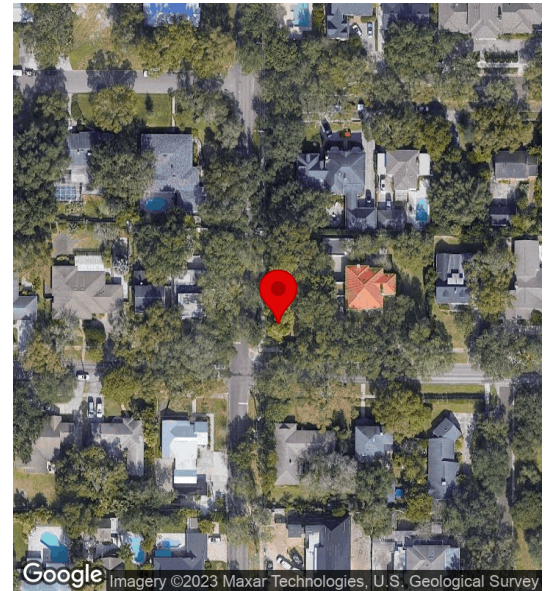
C-7

SCPA TREE EVALUATION REPORT

GOLFVIEW

#142 GRAND

32" SLASH PINE



Location

27.9340185347, -82.5015132129

N-S x E-W Crown Spread (CS)

41' x 37'

39-ft (CS) = 1195 SF (CF) * 0.75 (CR) * 0.7 (SR) = 627 SF (RCF)

Level 1 Notes

Private property. Completely overtaken by fig. Multiple dead branches hanging

Health - Level 1

C - Fair

Structure - Level 1

B - Good

Form - Level 1

D - Poor

Overall Condition Rating

C - Fair - Major Problems

Failure Potential

3-High

Defective Part Size

1-less than 6"

Target Rating

1-Occasional Use

Live Crown Ratio

21 to 40%

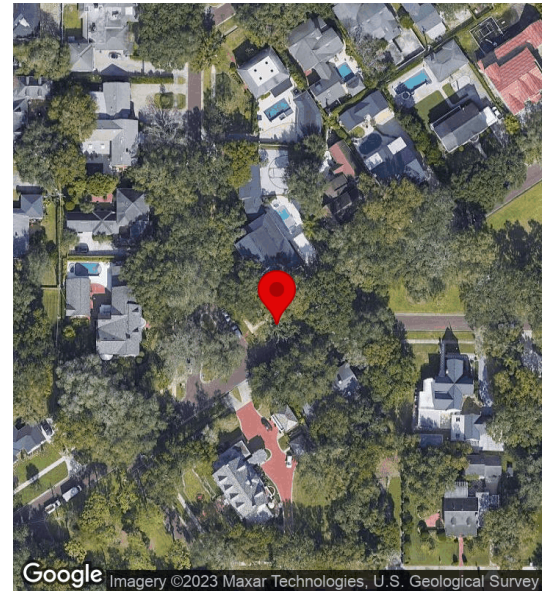
Debits or Credits

4 tree(s)

C-5

#147 GRAND

34" LAUREL OAK



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Location

27.9321437907, -82.5003846735

N-S x E-W Crown Spread (CS)

45' x 69'

57-ft (CS) = 2552 SF (CF) * 0.75 (CR) * 0.7 (SR) = 1340 SF (RCF)

Level 1 Notes

Private property tree, limited assessment. Mature laurel oak defects present.

Factor 1 - Roots

B/B Notes: House within dripline
Defects: Compaction

Factor 2 - Trunk

C/C Notes: Limited, cavity and hollow wood present, unknown extent
Defects: Hollow Wood - Cavities

Factor 3 - Scaffold Branches

C/C Notes: Multiple heading cuts and excessive sprouting
Defects: Adventitious Branches (no decay present)
- Pruning Issues - Poor wound closure

Factors 4 & 5 - Crown

C/C Notes: Declining, thinning canopy and dieback
Defects: Dieback - Defoliation

Health - Level 1

C - Fair

Structure - Level 1

C - Fair

Form - Level 1

C - Fair

Overall Condition Rating

C - Fair - Major Problems

Failure Potential

2-Medium

Defective Part Size

2-6" to 18"

Target Rating

4-Constant-use, structures

Live Crown Ratio

61 to 80%

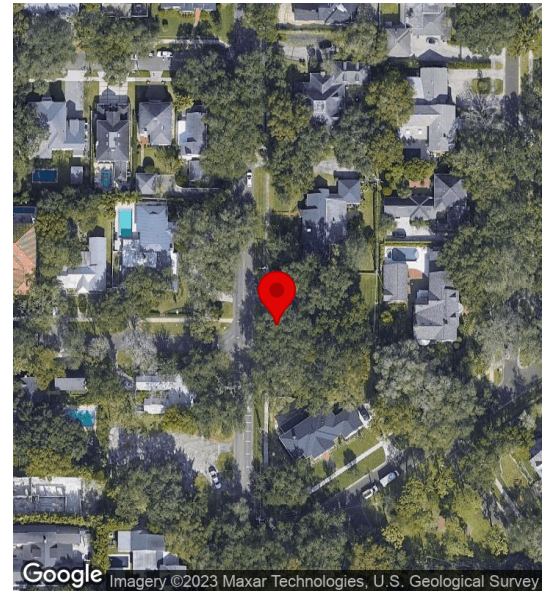
Debits or Credits

8.6 tree(s)

C-8

#155 GRAND

36" SOUTHERN LIVE OAK



Location

27.9320960997, -82.5015433878

N-S x E-W Crown Spread (CS)

72' x 71'

72-ft (CS) = 4072 SF (CF) * 0.75 (CR) * 0.9 (SR) = 2749 SF (RCF)

Level 1 Notes

Private property, pruned for utility. Major past removal cut of lower branch of 30 inches to prevent further cracking.

Factor 2 - Trunk

A/C Notes: Sidewalk and old driveway within dripline, now clear trunk to halfway up tree. Old crack from past pruned leader, minor

Defects: Inclusion Bulge - Cavities - Codominant Stems without Inclusion - Cracking

Factor 3 - Scaffold Branches

B/B Notes: At knuckle of large pruning cut have been smaller diameter branches cut back

Defects: Pruning Issues - Adventitious Branches (no decay present)

Factors 4 & 5 - Crown

C/A Defects: Dieback (minor)

Health - Level 1

A - Excellent

Structure - Level 1

C - Fair

Form - Level 1

B - Good

Overall Condition Rating

C - Fair - Major Problems

Failure Potential

2-Medium

Defective Part Size

1-less than 6"

Target Rating

2-Intermittent Use

Live Crown Ratio

21 to 40%

Debits or Credits

17.7 tree(s)

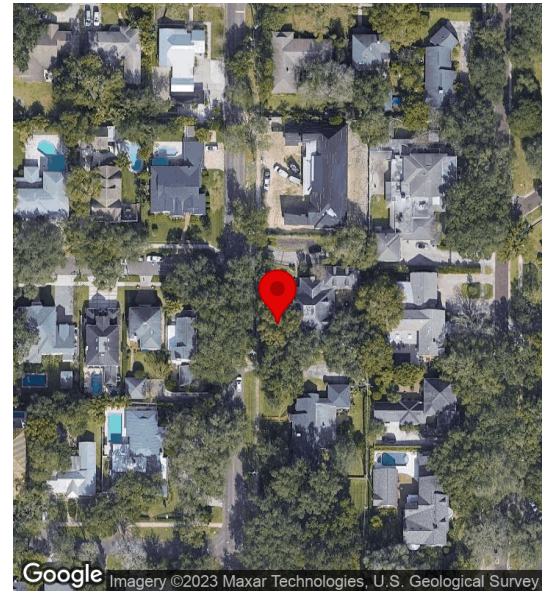
C-5

SCPA TREE EVALUATION REPORT

GOLFVIEW

#158 GRAND

48" LAUREL OAK



Location

27.9327581439, -82.5015031546

N-S x E-W Crown Spread (CS)

64' x 55'

60-ft (CS) = 2827 SF (CF) * 0.4 (CR) * 0.7 (SR) = 792 SF (RCF)

Level 1 Notes

Private property mature laurel, declining. Multi dominant with inclusion

Health - Level 1

C - Fair

Structure - Level 1

D - Poor

Form - Level 1

D - Poor

Overall Condition Rating

D - Poor - Extreme Problems

Failure Potential

3-High

Defective Part Size

2-6" to 18"

Target Rating

1-Occasional Use

Live Crown Ratio

41 to 60%

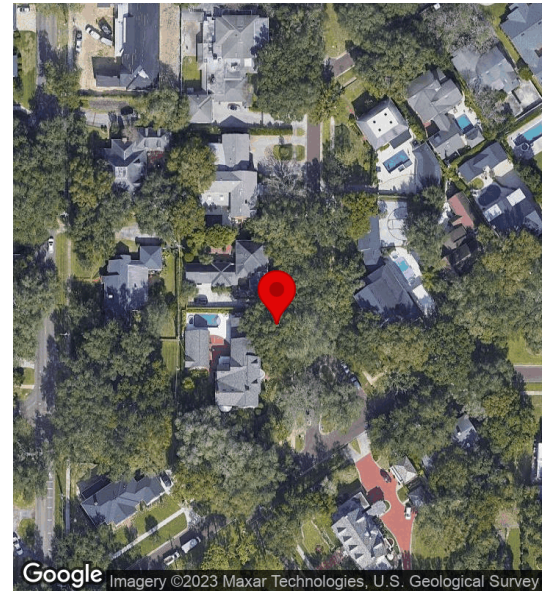
Debits or Credits

5.1 tree(s)

D-6

#161 GRAND

40" SOUTHERN LIVE OAK



Location

27.9323117459, -82.5008185208

N-S x E-W Crown Spread (CS)

103' x 77'

90-ft (CS) = 6362 SF (CF) * 0.9 (CR) * 0.9 (SR) = 5153 SF (RCF)

Level 1 Notes

Private property oak, limited assessment.

Factor 1 - Roots

A/A Notes: Can only see from one side

Factor 2 - Trunk

B/B Notes: No inclusion, fruiting bodies on bark, not sign of internal decay

Defects: Tridominant stems - Decay Conks or Fungi

Factor 3 - Scaffold Branches

B/C Notes: Lowest branch with 15 inch heading cut. Branches to the south sweeping down to 10 feet from ground over property's front yard.

Defects: Up-sweeping Branches - Clustered Low Branches - Adventitious Branches (no decay present) - Pruning Issues

Factors 4 & 5 - Crown

A/A

Health - Level 1

A - Excellent

Structure - Level 1

B - Good

Form - Level 1

A - Excellent

Overall Condition Rating

B - Good - Minor Problems

Failure Potential

1-Low

Defective Part Size

1-less than 6"

Target Rating

4-Constant-use, structures

Live Crown Ratio

81 to 100%

Debits or Credits

33.2 tree(s)

B-6

EXHIBIT B – TREE TABLES

(pages inserted as pdf attachments, disregard page numbering)

TREE #	TREE TAG #	SYM	Botanical Name	Common Name	is grand?	Permit DBH	H-5-F	CR-HAZ	CLR	SR	Disposition	Level 1 Note	Matrix	Subtype
1	442	QV	Quercus laevis	Laurel Oak		23	(B-C)	C-6	C	70	Private Property Tree		F1	1C
3	443	QV	Quercus virginiana	Southern Live Oak	Grand	45	(C-C)	C-6	C	90	Preserved	ROW oak in large planting space. Utility conflicts on surrounding 45% of canopy. Restricted growth within.	F1	1C
4	444	QV	Quercus virginiana	Southern Live Oak		21	(C-C)	C-5	C	90	Preserved		F1	1D
6	403	QV	Quercus laevis	Laurel Oak		9	(D-D)	D-4	D	70	Private Property Tree		F1	1A
7	405	QV	Quercus virginiana	Southern Live Oak		30	(A-B)	C-5	C	90	Private Property Tree	Utility pruning	F1	1D
8	406	QV	Quercus virginiana	Southern Live Oak		30	(A-B)	B-6	B	90	Private Property Tree		F1	1D
11	403	QV	Quercus virginiana	Southern Live Oak	Grand	44	(B-A)	B-5	B	90	Preserved	ROW tree with large canopy. Maintained from having limbs over house to the north. Tree with high clearance of any secondor	F1	1C
12	404	QV	Quercus virginiana	Southern Live Oak		28	(B-C)	C-4	C	90	Preserved		F1	1D
13	405	QV	Quercus virginiana	Southern Live Oak	Grand	34	(B-C)	C-5	C	90	Preserved	ROW tree causing major conflict with curb and street. Half of canopy restricted due to oak to the west.	F1	1D
14	406	QV	Quercus virginiana	Southern Live Oak		28	(D-C)	D-5	D	90	Preserved	Declining, major defect	F1	1C
15	407	QV	Quercus virginiana	Southern Live Oak	Grand	50	(B-D)	D-8	D	90	Preserved	ROW tree leaning over the road with multiple defects	F1	1B
16	408	QV	Quercus virginiana	Southern Live Oak		29	(B-C)	C-5	C	90	Preserved		F1	1D
17	409	QV	Quercus virginiana	Southern Live Oak		10	(B-C)	C-4	C	90	Preserved		F1	1A
18	410	QV	Quercus virginiana	Southern Live Oak		10	(B-C)	C-4	C	90	Preserved		F1	1A
19	411	QV	Quercus virginiana	Southern Live Oak	Grand	44	(A-C)	C-5	C	90	Private Property Tree	Private property tree. Low branches surround entire tree to the south and west. Low clearance over road, only resolved with	F1	1C
20	412	QV	Quercus virginiana	Southern Live Oak	Grand	65	(B-C)	C-6	C	90	Preserved	Private property, impact to sidewalk	F1	1C
21	413	QV	Quercus virginiana	Southern Live Oak		29	(B-C)	C-4	C	90	Preserved		F1	1D
22	412	QV	Quercus virginiana	Southern Live Oak		16	(B-C)	C-4	C	90	Preserved		F1	1B
23	413	QV	Quercus virginiana	Southern Live Oak		31	(A-C)	C-4	C	90	Preserved		F1	1D
24	414	QV	Quercus virginiana	Southern Live Oak		26	(B-C)	C-4	C	90	Preserved		F1	1D
25	415	QV	Quercus virginiana	Southern Live Oak		28	(D-C)	D-5	D	90	Preserved		F1	1D
26	416	QV	Quercus virginiana	Southern Live Oak		21	(B-C)	C-4	C	90	Preserved		F1	1C
27	417	QV	Quercus virginiana	Southern Live Oak	Grand	33	(C-C)	C-7	C	90	Private Property Tree	Wishbone from utility pruning, multiple pruning cuts and sprouting	F1	1C
28	418	QV	Quercus virginiana	Southern Live Oak		25	(B-C)	C-5	C	90	Preserved		F1	1C
29	419	QV	Quercus virginiana	Southern Live Oak		18	(B-C)	C-5	C	90	Preserved		F1	1B
30	419	QV	Quercus virginiana	Southern Live Oak		15	(B-C)	C-4	C	90	Preserved		F1	1B
31	420	QV	Quercus virginiana	Southern Live Oak		29	(C-C)	C-5	C	90	Preserved		F1	1D
32	421	QV	Quercus virginiana	Southern Live Oak		16	(B-C)	C-5	C	90	Preserved		F1	1B
33	422	QV	Quercus virginiana	Southern Live Oak		21	(C-C)	C-6	C	90	Preserved	Vehicle damage to trunk, large area of missing bark, proper wound closure	F1	1C
34	423	QV	Quercus virginiana	Southern Live Oak		16	(B-C)	C-5	C	90	Preserved		F1	1B
35	424	QV	Quercus virginiana	Southern Live Oak		19	(B-C)	C-5	C	90	Preserved		F1	1B
36	425	QV	Quercus virginiana	Southern Live Oak		18	(C-C)	C-5	C	90	Preserved		F1	1B
37	426	QV	Quercus virginiana	Southern Live Oak		20	(A-C)	C-6	C	90	Preserved		F1	1B
38	427	QV	Quercus virginiana	Southern Live Oak		23	(B-C)	C-6	C	90	Preserved		F1	1C
39	428	QV	Quercus virginiana	Southern Live Oak		20	(B-C)	C-4	C	90	Preserved		F1	1B
40	429	QV	Quercus virginiana	Southern Live Oak		25	(A-C)	C-5	C	90	Preserved		F1	1B
41	430	QV	Quercus virginiana	Southern Live Oak		16	(B-C)	C-4	C	90	Preserved		F1	1B
43	433	QV	Quercus virginiana	Southern Live Oak	Grand	35	(B-C)	C-7	C	90	Preserved	Private property. Close to alleyway. Competing for canopy space with adjacent laurel	F1	1C
44	434	QV	Quercus virginiana	Southern Live Oak	Grand	35	(B-A)	B-6	B	90	Private Property Tree	Private property. Great form	F1	1C
45	435	QV	Quercus virginiana	Southern Live Oak		17	(B-B)	B-4	B	90	Preserved		F1	1B
46	436	QV	Quercus virginiana	Southern Live Oak	Grand	34	(C-C)	C-5	C	90	Preserved	ROW tree maintained with multiple pruning cuts over time. Narrow canopy	F1	1C
47	437	QV	Quercus virginiana	Southern Live Oak		25	(B-C)	C-5	C	90	Preserved		F1	1C
48	438	QV	Quercus laevis	Laurel Oak		30	(C-C)	C-6	C	70	Preserved	Private property	F1	1D
49	439	QV	Quercus laevis	Laurel Oak		18	(C-C)	C-5	C	70	Preserved		F1	1C
50	434	QV	Quercus laevis	Laurel Oak		18	(B-B)	B-5	B	70	Preserved		F1	1B
51	435	QV	Quercus laevis	Laurel Oak		31	(C-C)	C-5	C	70	Preserved		F1	1D
52	436	QV	Quercus laevis	Laurel Oak		19	(D-D)	D-4	D	70	Preserved	Majorly suppressed	F1	1B
53	437	QV	Quercus virginiana	Southern Live Oak		28	(B-C)	C-4	C	90	Preserved		F1	1D
55	438	QV	Quercus virginiana	Southern Live Oak		24	(B-C)	C-5	C	90	Preserved		F1	1C
56	439	QV	Quercus virginiana	Southern Live Oak		27	(D-D)	D-7	D	90	Preserved	Major decline and defect	F1	1D
57	440	QV	Quercus virginiana	Southern Live Oak		19	(B-C)	C-5	C	90	Preserved		F1	1B
59	435	QV	Quercus virginiana	Southern Live Oak		18	(B-C)	C-4	C	90	Preserved		F1	1B
60	436	QV	Quercus laevis	Laurel Oak		12	(D-D)	D-5	D	70	Preserved		F1	1B
63	437	QV	Quercus virginiana	Southern Live Oak		8	(B-A)	B-3	B	90	Preserved		F1	1A
64	438	QV	Quercus virginiana	Southern Live Oak		14	(B-C)	C-4	C	90	Preserved		F1	1B
65	439	QV	Quercus virginiana	Southern Live Oak		22	(B-C)	C-5	C	90	Preserved		F1	1C
66	440	QV	Quercus virginiana	Southern Live Oak		24	(C-C)	D-5	D	90	Preserved		F1	1C
67	441	QV	Quercus virginiana	Southern Live Oak		30	(B-C)	C-7	C	90	Preserved		F1	1D
68	442	QV	Quercus virginiana	Southern Live Oak	Grand	22	(B-C)	C-7	C	90	Preserved	ROW tree with all growth towards the south. Great clearance over the road. Competing for canopy space with neighboring oak	F1	1C
69	443	QV	Quercus virginiana	Southern Live Oak	Grand	61	(B-C)	C-5	C	90	Preserved	Private property, limited assessment. Comprised of two stems from ground. Main central tree could be grand tree by itself w/	F1	1C
70	437	QV	Quercus virginiana	Southern Live Oak		22	(B-A)	B-4	B	90	Preserved		F1	1B
71	437	QV	Quercus laevis	Laurel Oak		22	(D-D)	D-6	D	70	Preserved		F1	1C
72	444	QV	Quercus virginiana	Southern Live Oak		24	(B-A)	B-4	B	90	Private Property Tree		F1	1A
73	457	QV	Quercus virginiana	Southern Live Oak		10	(A-B)	B-4	B	90	Preserved		F1	1A
74	445	QV	Quercus virginiana	Southern Live Oak		16	(B-B)	B-4	B	90	Preserved		F1	1B
75	446	QV	Quercus virginiana	Southern Live Oak	Grand	33	(A-B)	B-4	B	90	Private Property Tree	Private, limited assessment. Minor inclusion	F1	1C
76	447	QV	Quercus virginiana	Southern Live Oak		20	(A-C)	C-4	C	90	Preserved		F1	1B
77	447	QV	Quercus virginiana	Southern Live Oak		22	(B-C)	C-4	C	90	Preserved		F1	1C
78	448	QV	Quercus laevis	Laurel Oak		16	(C-C)	C-5	C	90	Preserved		F1	1C
85	449	QV	Quercus laevis	Laurel Oak		17	(C-C)	C-5	C	70	Private Property Tree	Will be poor if impact occurs	F1	1B
86	450	QV	Quercus laevis	Laurel Oak		24	(C-C)	C-6	C	70	Private Property Tree		F1	1C
87	450	QV	Quercus virginiana	Southern Live Oak		16	(D-D)	D-5	D	90	Preserved	Major wound on trunk	F1	1B
89	451	QV	Quercus virginiana	Southern Live Oak		10	(B-C)	C-6	C	90	Private Property Tree		F1	1A
90	452	QV	Quercus virginiana	Southern Live Oak		30	(A-C)	B-6	B	90	Private Property Tree		F1	1D
91	453	QV	Quercus laevis	Laurel Oak		20	(D-D)	D-5	D	90	Private Property Tree		F1	1D
92	454	QV	Quercus laevis	Laurel Oak		18	(D-D)	D-6	D	70	Private Property Tree		F1	1B
94	455	QV	Quercus virginiana	Southern Live Oak		10	(B-C)	C-3	C	90	Preserved		F1	1A
95	456	QV	Quercus virginiana	Southern Live Oak		12	(B-B)	B-3	B	90	Preserved		F1	1B
96	457	QV	Quercus virginiana	Southern Live Oak		13	(B-B)	B-3	B	90	Preserved		F1	1B
97	458	QV	Quercus virginiana	Southern Live Oak	Grand	48	(B-C)	C-5	C	90	Preserved	Private	F1	1C
98	459	QV	Quercus laevis	Laurel Oak		30	(C-C)	C-5	C	70	Preserved	Declining, will be poor if impact occurs	F1	1D
103	460	QV	Liquidambar styraciflua	Sweetgum		16	(B-C)	C-6	C	70	Preserved		F1	1C
104	461	QV	Quercus laevis	Laurel Oak		30	(C-C)	C-7	C	70	Preserved		F1	1D
105	462	QV	Quercus virginiana	Southern Live Oak		15	(B-C)	C-4	C	90	Preserved		F1	1B
106	455	QV	Quercus virginiana	Southern Live Oak		26	(B-C)	C-5	C	90	Preserved		F1	1D
107	456	QV	Quercus virginiana	Southern Live Oak		21	(B-C)	C-4	C	90	Preserved		F1	1C
108	457	QV	Celtis laevigata	Sugarberry		18	(B-C)	C-6	C	50	Preserved	One main branch failure	F1	1B
109	458	QV	Celtis laevigata	Sugarberry		38	(B-C)	C-5	C	50	Preserved	ROW, currently without foliage. Upright shape	F1	1D
111	438	QV	Quercus laevis	Laurel Oak		29	(-)	X-7	X	70	Preserved		F1	1D
112	439	QV	Quercus virginiana	Southern Live Oak		30	(B-C)	C-4	C	90	Preserved		F1	1D
114	440	QV	Quercus virginiana	Southern Live Oak		5	(B-B)	B-4	B	90	Preserved	Planted recently	F1	1A
115	440	QV	Quercus virginiana	Southern Live Oak		19	(B-C)	C-5	C	90	Preserved		F1	1B
116	441	QV	Quercus virginiana	Southern Live Oak	Grand	36	(B-C)	C-5	C	90	Preserved	ROW tree shading road and vertical structure, good clearance over road.	F1	1C
117	442	QV	Quercus virginiana	Southern Live Oak		10	(B-C)	C-4	C	90	Private Property Tree		F1	1A
118	443	QV	Quercus virginiana	Southern Live Oak		31	(B-C)	C-4	C	90	Private Property Tree	Almost grand by .5 inch	F1	1D
119	444	QV	Quercus laevis	La										

100	DSI	Dalbergia sissoo	Indian Rosewood	33	(B-C-C)	C-6	Y	0	Preserved	Private. Wound in union, no decay	X2	X2	
101	453	DSI	Dalbergia sissoo	Indian Rosewood	22	(-)	-	Y	0	Preserved		X2	X2
102	454	DSI	Dalbergia sissoo	Indian Rosewood	26	(-)	-	Y	0	Preserved		X2	X2
131	PR	Phoenix reclinata	Senegal Date Palm	(B-B-B)	B-3		Y	70	Private Property Tree		X2	X2	
5	XX	(n/a)		(-)	-	X			not used	Dead	XX	XX	
9	XX	(n/a)		(-)	-	X			not used	Size below cutoff	XX	XX	
42	XX	(n/a)		(-)	-	X			not used	Dead	XX	XX	
81	XX	(n/a)		(-)	-	X			not used	Size below cutoff	XX	XX	
88	XX	(n/a)		(-)	-	X			not used	Missing	XX	XX	
113	XX	(n/a)		(-)	-	X			not used	Missing	XX	XX	

TABLE 284.4.1-A: TREE RETENTION-MITIGATION EQUIVALENCY TABLES BY TREE TYPE [6]

	Trees Retained				Grand Trees Retained	# of trees	Equivalent # of 2.5" Cal Trees	Total Credits	
	Subtype	Diameter (inches) / Dripline (feet)	# of trees	Retention Multiplier					
TYPE 1: TALL & WIDE	1A	5" to 10"	9	-1	Grand tree(s)	12	-213.20	-213.2	
	1B	11" to 20"	30	-2					
	1C	21" to 25"	16	-4					
	1D	26" to <32"	21	-12					
		Subtotal	76					-385	
					Subtotal				-213.2
	Trees Removed				Grand Trees Removed	# of trees	Equivalent # of 2.5" Cal Trees	Total Debits	
		Diameter (inches) / Dripline (feet)	# of trees	Replacement Multiplier					
	1A	5" to 10"	0	1	Grand tree(s)	0	0.00	0	
	1B	11" to 20"	0	2				0	
1C	21" to 25"	0	3				0		
1D	26" to <32"	0	4				0		
	Subtotal	0		Subtotal			0		
								Type 1: Total Mitigation Trees Required	-599
TYPE 2: TALL & NARROW	Trees Retained				Grand Trees Retained	# of trees	Equivalent # of 2.5" Cal Trees	Total Credits	
		Diameter (inches) / Dripline (feet)	# of trees	Retention Multiplier					
	2A	5" to 17"	2	-1	Grand tree(s)	0	0.00		
	2B	18" to 29"	0	-2				0	
	2C	30" to <32"	0	-3				0	
		Subtotal	2		Subtotal			-2	
	Trees Removed				Grand Trees Removed	# of trees	Equivalent # of 2.5" Cal Trees	Total Debits	
		Diameter (inches) / Dripline (feet)	# of trees	Replacement Multiplier					
	2A	5" to 17"	0	1	Grand tree(s)	0	0.00	0	
	2B	18" to 29"	0	2				0	
2C	30" to <32"	0	3				0		
	Subtotal	0		Subtotal			0		
								Type 2: Total Mitigation Trees Required	-2
TYPE 3: SHORT & WIDE/MULTI-STEM	Trees Retained				Grand Trees Retained	# of trees	Equivalent # of 2.5" Cal Trees	Total Credits	
		Diameter (inches) / Dripline (feet)	# of trees	Retention Multiplier					
	3A	5" to 7"	3	-1	Grand tree(s)	0	0	0	
	3B	8" to 17"	5	-2				-10	
	3C	18" to 29"	0	-3				0	
	3D	30" to <32"	0	-4				0	
		Subtotal	8		Subtotal			-13	
	Trees Removed				Grand Trees Removed	# of trees	Equivalent # of 2.5" Cal Trees	Total Debits	
		Diameter (inches) / Dripline (feet)	# of trees	Replacement Multiplier					
	3A	5" to 7"	0	1	Grand tree(s)	0	0	0	
3B	8" to 17"	0	2				0		
3C	18" to 29"	0	3				0		
3D	30" to <32"	0	4				0		
	Subtotal	0		Subtotal			0		
								Type 3: Total Mitigation Trees Required	-13
PALMS	Trees Retained				Trees Removed		Replacement Multiplier	Total Debits	
		# of trees	Retention Multiplier	Total Credits	# of trees				
PA	Palms with 6' clear trunk	6	-1	-6	Palms with 6' clear trunk	0	1	0	
	Subtotal	6		-6	Subtotal	0		0	
								Palm: Total Mitigation Trees Required	0

NOTES:

[1] All grand tree species calculated at "moderate" growth rate and using 10" caliper tree as standard 5-Year Parity (i.e. 154 SF replacement Crown Footprint per 2.5" caliper tree planted).

[2] Species Rating % standardized to mid-point of range. SR ["Species Rating"]: Rating denotes comparative value by species, based on suitability & performance as 'urban trees', using FL ISA's Tree Species Ratings (2016); recorded as

[3] CR ["Condition Rating"]: Rating using Tree Hazard Evaluation Method (Matheny and Clark 1994); recorded as a PERCENT ['A'=100%, 'B'=90%, 'C'=75%, 'D'=40%, 'F'=0%].

[4] Refer to Table 284.4.1-A1 Range of Species Ratings below.

[5] Credit for grand tree retention is calculated in the same manner as debits.

[6] All mitigation trees measuring less than 5" shall be factored into this table as a 5" tree.

Reference: "ft" means "feet;" "in" means "inches;" "SF" means "square feet;" "cal" means "caliper."

EXHIBIT C – TREE PRUNING TABLE

(pages inserted as pdf attachments, disregard page numbering)

TREE #	TREE TAG #	SYM	Botanical Name	Common Name	is grand?	Permit DBH	H-S-F=	CR-HAZ	CLR	Pruning Amount
14	406	QV	<i>Quercus virginiana</i>	Southern Live Oak		28	(D-C-C)	D-5	D	Severe
15	407	QV	<i>Quercus virginiana</i>	Southern Live Oak	Grand	50	(B-D-C)	D-8	D	Severe
19		QV	<i>Quercus virginiana</i>	Southern Live Oak	Grand	44	(A-C-B)	C-5	C	Moderate
22	412	QV	<i>Quercus virginiana</i>	Southern Live Oak		16	(B-C-D)	C-4	C	Severe
31	420	QV	<i>Quercus virginiana</i>	Southern Live Oak		29	(C-C-C)	C-5	C	Severe
33	422	QV	<i>Quercus virginiana</i>	Southern Live Oak		21	(C-C-C)	C-6	C	Severe
34	423	QV	<i>Quercus virginiana</i>	Southern Live Oak		16	(C-B-C)	C-5	C	Moderate
38	427	QV	<i>Quercus virginiana</i>	Southern Live Oak		23	(B-B-C)	C-6	C	Severe
39	428	QV	<i>Quercus virginiana</i>	Southern Live Oak		20	(B-C-C)	C-4	C	Moderate
43	433	QV	<i>Quercus virginiana</i>	Southern Live Oak	Grand	35	(B-C-C)	C-7	C	Severe
53		QV	<i>Quercus virginiana</i>	Southern Live Oak		28	(B-C-C)	C-6	C	Moderate
55		QV	<i>Quercus virginiana</i>	Southern Live Oak		24	(B-C-C)	C-5	C	Moderate
56		QV	<i>Quercus virginiana</i>	Southern Live Oak		27	(D-C-D)	D-7	D	Moderate
69		QV	<i>Quercus virginiana</i>	Southern Live Oak	Grand	61	(B-C-B)	C-5	C	Severe
85		QL	<i>Quercus laurifolia</i>	Laurel Oak		17	(C-C-C)	C-6	C	Moderate

EXHIBIT D – TREE PROTECTION DETAILS

(pages inserted as pdf attachments, disregard page numbering)

TREE PROTECTION FOR GRAND TREE

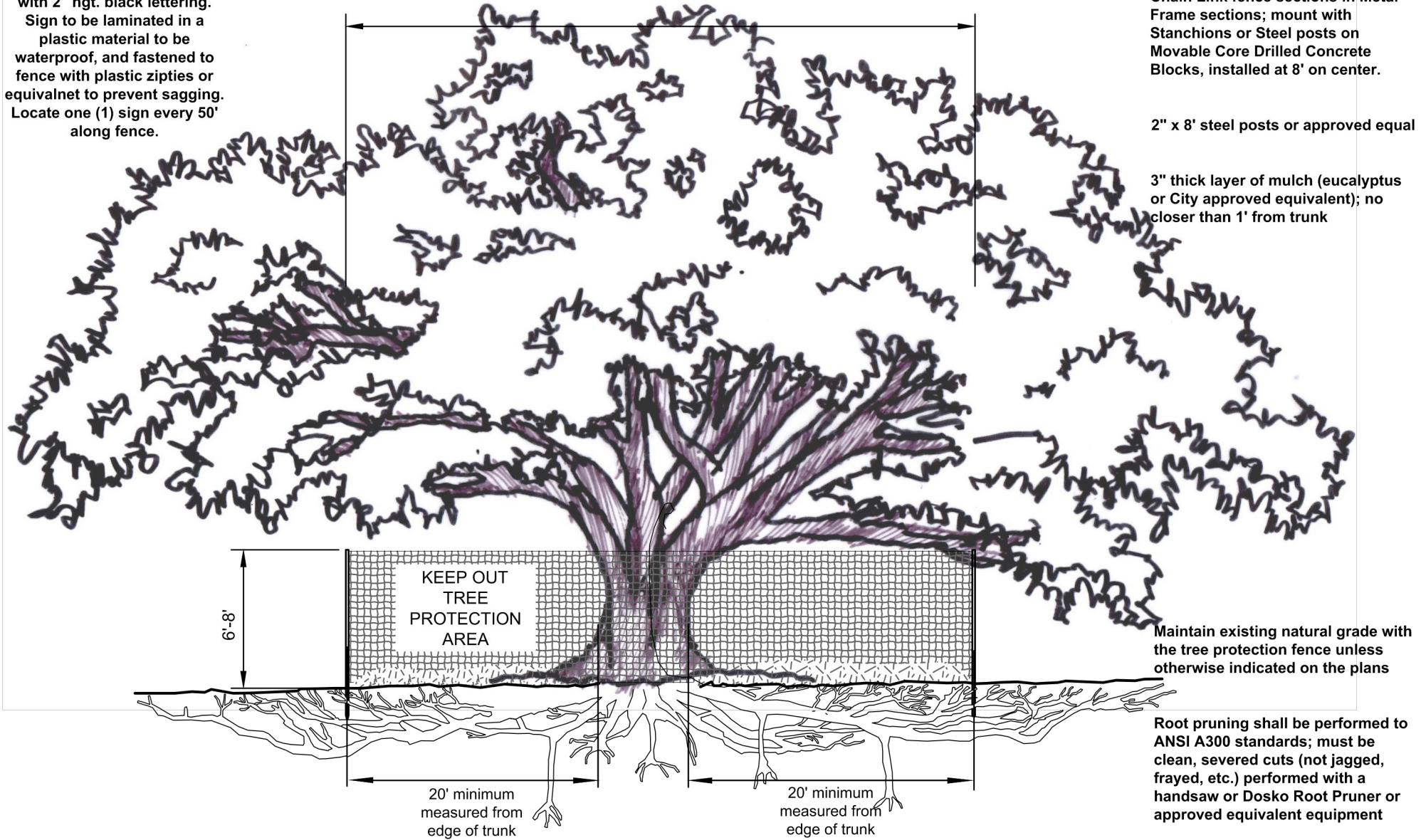
8.5"X11" cardboard warning with 2" hgt. black lettering. Sign to be laminated in a plastic material to be waterproof, and fastened to fence with plastic zipties or equivalent to prevent sagging. Locate one (1) sign every 50' along fence.

Crown spread/drip line or other limit of Tree Protection

Tree Protection fence: 6'-8' hgt. Chain Link fence sections in Metal Frame sections; mount with Stanchions or Steel posts on Movable Core Drilled Concrete Blocks, installed at 8' on center.

2" x 8" steel posts or approved equal

3" thick layer of mulch (eucalyptus or City approved equivalent); no closer than 1' from trunk



Maintain existing natural grade with the tree protection fence unless otherwise indicated on the plans

Root pruning shall be performed to ANSI A300 standards; must be clean, severed cuts (not jagged, frayed, etc.) performed with a handsaw or Dosko Root Pruner or approved equivalent equipment

area. See tree preservation plan for fence alignment.

NOTES:

- 1- See specifications for additional tree protection requirements.
- 2- If there is no existing irrigation, see specifications for watering requirements.
- 3- Pruning shall be performed to ANSI A300 standards.
- 4- No equipment shall operate inside the protective fencing including during fence installation and removal.
- 5- See site preparation plan for any modifications with the Tree Protection area.

Crown spread/drip line or other limit of Tree Protection area. See tree preservation plan for fence alignment.

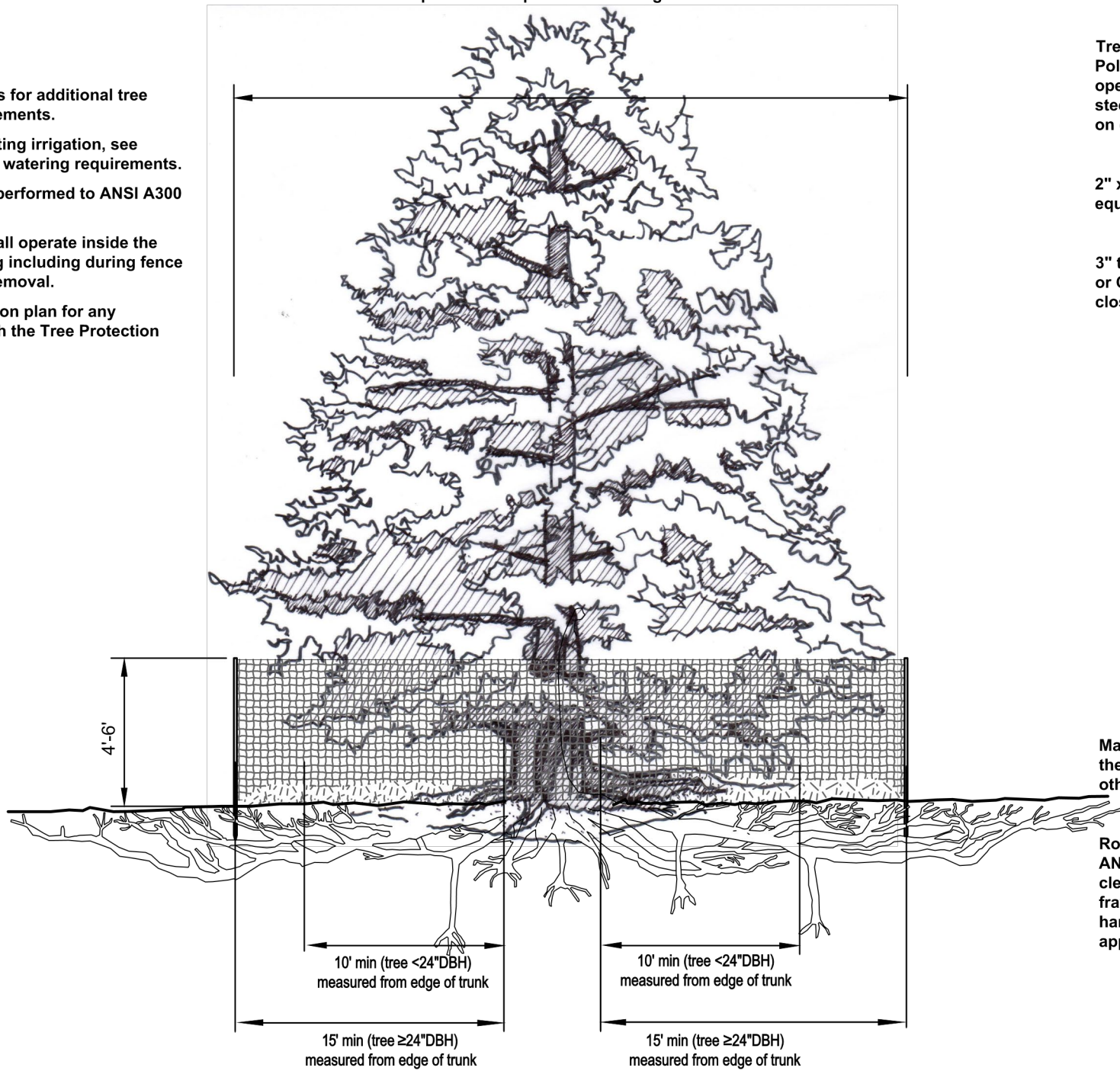
NOTES:

- 1- See specifications for additional tree protection requirements.
- 2- If there is no existing irrigation, see specifications for watering requirements.
- 3- Pruning shall be performed to ANSI A300 standards.
- 4- No equipment shall operate inside the protective fencing including during fence installation and removal.
- 5- See site preparation plan for any modifications with the Tree Protection

Tree Protection fence: High Density Polyethylene Fencing with 3.5"x1.5" openings; color orange; attach to steel or wood posts installed at 6'-8' on center.

2" x 4' to 6' steel posts or approved equal

3" thick layer of mulch (eucalyptus or City approved equivalent); no closer than 1' from trunk



Maintain existing natural grade with the tree protection fence unless otherwise indicated on the plans

Root pruning shall be performed to ANSI A300 standards; must be clean, severed cuts (not jagged, frayed, etc.) performed with a handsaw or Dosko Root Pruner or approved equivalent equipment