

ALVEY TREE CONSULTING LLC

ALEXIS ALVEY ISA BOARD CERTIFIED MASTER ARBORIST®
#NY-5539B

Arborist Report 1901 Alton Road Miami Beach

9/13/2023



On September 8th 2023, I visited the property located at 1901 Alton Road at the request of Urban Robot Associates. I evaluated the trees on the site in anticipation of new construction. For each tree, I identified species, location, and size (Height, Spread, DBH); evaluated condition (Poor, Fair, Good); provided relevant comments about health and condition; and took photographs. Street trees are included.

For tree disposition and Tree Protection Zones, please see the landscape plans. For trees and palms that are to remain, protective barriers shall be placed at the dripline or 10ft radius from the trunk, whichever is greater. Barriers shall be installed prior to the start of construction, and shall remain in place until development is completed and until the department authorizes their removal. Barriers shall be a minimum of 4ft high, and shall be constructed of continuous chain link fence with metal posts at 8ft spacing, or of 2x4 posts with three equally spaced 2x4 rails. Posts may be shifted to avoid roots. No materials shall be placed or disposed of within the TPZ. Natural grade shall be maintained within the TPZ.

This report shall in no shape or form be construed as a tree risk assessment which is beyond the scope of work written in the contractual agreement. Please feel free to contact me should any questions arise. Thank-you for the opportunity to assist in this manner.

Alexa Alvey

Alexis Alvey ISA Board Certified Master Arborist® #NY-5539B

Alvey Tree Consulting LLC 516-728-1366 alveytree@gmail.com alveytree.com

Property Location -

1901 Alton Road Miami Beach, FL 33139

Client -

Urban Robot Associates
Justine Velez, RLA, Principal
420 Lincoln Road, Suite 600, Miami Beach, FL 33139
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Tree Table

1901 ALTON ROAD, MIAMI BEACH 33139

NUMBER	COMMON NAME	SCIENTIFIC NAME	DBH (IN)	HT (FT)	SP (FT)	CONDITION	NATIVE?	NOTES
1	MEXICAN FAN PALM	WASHINGTONIA ROBUSTA	14	50	10	GOOD	NO	
2	EARLEAF ACACIA	ACACIA AURICULIFORMIS	30	45	40	FAIR	INVASIVE	
3	MEXICAN FAN PALM	WASHINGTONIA ROBUSTA	8	8	8	GOOD	NO	
4	EARLEAF ACACIA	ACACIA AURICULIFORMIS	10.5	30	15	FAIR	INVASIVE	
5	EARLEAF ACACIA	ACACIA AURICULIFORMIS	17	33	20	POOR	INVASIVE	LARGE DEADWOOD; PRUNE TO REMOVE DEADWOOD ASAP
6	EARLEAF ACACIA	ACACIA AURICULIFORMIS	12	30	25	FAIR	INVASIVE	
7	EARLEAF ACACIA	ACACIA AURICULIFORMIS	18.5	40	20	POOR	INVASIVE	HANGING BROKEN LIMB; PRUNE TO REMOVE DEADWOOD ASAP
8	PINK TRUMPET TREE	TABEBUIA HETEROPHYLLA	6	20	8	POOR	NO	
9	EARLEAF ACACIA	ACACIA AURICULIFORMIS	19.5	40	25	FAIR	INVASIVE	
10	EARLEAF ACACIA	ACACIA AURICULIFORMIS	24	40	18	POOR	INVASIVE	LARGE DEADWOOD; PRUNE TO REMOVE DEADWOOD ASAP
11	EARLEAF ACACIA	ACACIA AURICULIFORMIS	24	40	30	FAIR	INVASIVE	
12	EARLEAF ACACIA	ACACIA AURICULIFORMIS	12	40	27	FAIR	INVASIVE	
13	MEXICAN FAN PALM	WASHINGTONIA ROBUSTA	16	40	8	FAIR	NO	
14	ROYAL PALM	ROYSTONEA REGIA	14	50	15	FAIR	YES	
15	SILVER BUTTONWOOD	CONOCARPUS ERECTUS VAR. SERICEUS	8	15	18	GOOD	YES	R.O.W. TREE
16	SILVER BUTTONWOOD	CONOCARPUS ERECTUS VAR. SERICEUS	8	15	18	GOOD	YES	R.O.W. TREE
17	ROYAL PALM	ROYSTONEA REGIA	16	45	16	FAIR	YES	
18	LIVE OAK	QUERCUS VIRGINIANA	6	20	18	GOOD	YES	R.O.W. TREE
19	SYLVESTER PALM	PHOENIX SYLVESTRIS	12	25	12	GOOD	NO	R.O.W. TREE
20	LIVE OAK	QUERCUS VIRGINIANA	9	20	18	GOOD	YES	R.O.W. TREE
21	SYLVESTER PALM	PHOENIX SYLVESTRIS	12	25	12	GOOD	NO	R.O.W. TREE
22	LIVE OAK	QUERCUS VIRGINIANA	6	18	18	GOOD	YES	R.O.W. TREE
23	SYLVESTER PALM	PHOENIX SYLVESTRIS	14	25	12	GOOD	NO	R.O.W. TREE
24	ROYAL PALM	ROYSTONEA REGIA	16	40	20	GOOD	YES	
25	DATE PALM	PHOENIX DACTYLIFERA	18	28	20	GOOD	NO	R.O.W. TREE
26	SABAL PALM	SABAL PALMETTO	13	25	15	GOOD	YES	
27	LIVE OAK	QUERCUS VIRGINIANA	12	30	25	GOOD	YES	R.O.W. TREE
28	ROYAL PALM	ROYSTONEA REGIA	12.5	40	14	POOR	YES	
29	MONTGOMERY PALM, DOUBLE	VEITCHIA ARECINA	7, 7	25	20	GOOD	NO	R.O.W. TREE
30	ROYAL PALM	ROYSTONEA REGIA	14	50	15	FAIR	YES	
31	MEXICAN FAN PALM	WASHINGTONIA ROBUSTA	14	40	12	GOOD	NO	
32	QUEEN PALM	SYAGRUS ROMANZOFFIANA	8	25	10	POOR	NO	
33	ROYAL PALM	ROYSTONEA REGIA	17	50	16	GOOD	YES	

Common Name - MEXICAN FAN PALM

Scientific Name - WASHINGTONIA ROBUSTA

DBH (in) - 14 **Height (ft)** - 50

Canopy Spread (ft) - 10

Condition -GOOD NO NO





Tree #1 is a Mexican Fan Palm located in the southeast corner of the property. It is in good condition. Overhead wires are nearby.

Prune to remove the lower dead fronds.

Tree #2

Common Name - EARLEAF ACACIA

Scientific Name - ACACIA AURICULIFORMIS

DBH (in) - 30

Height (ft) - 45

Canopy Spread (ft) - 40

Condition - FAIR

Native? -







Tree #2 is an Earleaf Acacia located on the eastern side of the property. It is in fair condition. There is included bark between the leaders. Long, over-extended limbs are present. Little deadwood is present.

Continue to prune to remove deadwood and to maintain clearance over the parking lot. This species is highly invasive in South Florida and this tree will therefore need to be removed.

Common Name - MEXICAN FAN PALM

Scientific Name - WASHINGTONIA ROBUSTA

DBH (in) - 8

Height (ft) - 8

Canopy Spread (ft) - 8

Condition - GOOD

Native? -





Tree #3 is a small Mexican Fan Palm located on the eastern side of the property. It is in good condition.

Tree #4

Common Name - EARLEAF ACACIA

Scientific Name - ACACIA AURICULIFORMIS

DBH (in) - 10.5

Height (ft) - 30

Canopy Spread (ft) - 15

Condition - FAIR

Native? -







Tree #4 is an Earleaf Acacia located on the eastern side of the property. It is in fair condition. There is limited rooting space. Large surface roots are present. The tree has a small, asymmetrical canopy with a low live crown ratio.

Continue to prune to remove deadwood. This species is highly invasive in South Florida and this tree will therefore need to be removed.

Common Name - EARLEAF ACACIA

Scientific Name - ACACIA AURICULIFORMIS

DBH (in) - 17 **Height (ft)** - 33

Canopy Spread (ft) - 20

Condition - POOR

Native? -





Tree #5 is an Earleaf Acacia located on the east side of the property. It is in poor condition. There is limited rooting space and many large surface roots. The tree is thinning with extensive dieback. Large dead limbs are present.

Prune to remove the deadwood as soon as possible since it is over the parking lot. This species is highly invasive in South Florida and this tree will therefore need to be removed.

Tree #6

Common Name - EARLEAF ACACIA

Scientific Name - ACACIA AURICULIFORMIS

DBH (in) - 12

Height (ft) - 30

Canopy Spread (ft) - 25

Condition - FAIR

Native? -





Tree #6 is an Earleaf Acacia located on the east side of the property. The tree is in fair condition. It has a poor, spreading form. There is limited rooting space and many large surface roots.

Continue to prune to remove deadwood. This species is highly invasive in South Florida and this tree will therefore need to be removed.

Common Name - EARLEAF ACACIA

Scientific Name - ACACIA AURICULIFORMIS

DBH (in) - 18.5

Height (ft) - 40

Canopy Spread (ft) - 20

Condition - POOR

Native? -





Tree #7 is an Earleaf Acacia located on the east side of the property. The tree is in poor condition. There are large, hanging dead limbs in the canopy. There is limited rooting space and many large surface roots. Prune to remove the deadwood as soon as possible since it is over the parking lot. This species is highly invasive in South Florida and this tree will therefore need to be removed.

Tree #8

Common Name - PINK TRUMPET TREE

Scientific Name - TABEBUIA HETEROPHYLLA

DBH (in) - 6

Height (ft) - 20

Canopy Spread (ft) - 8

Condition - POOR

Native? -





Tree #8 is a Pink Trumpet Tree located on the northeast side of the property. It is in poor condition. There is limited rooting space. There are pest issues affecting the foliage. The canopy is thin.

Common Name - EARLEAF ACACIA

Scientific Name -ACACIA AURICULIFORMIS **DBH (in) -** 19.5

Height (ft) - 40

Canopy Spread (ft) - 25

Condition - FAIR

Native? -





Tree #9 is an Earleaf Acacia located on the northeast side of the property. It is in fair condition. There is limited rooting space and there are many large surface roots. The trunk divides into two with included bark. The tree has a low live crown ratio.

Continue to prune to remove deadwood. This species is highly invasive in South Florida and this tree will therefore need to be removed.

Tree #10

Common Name - EARLEAF ACACIA

Scientific Name - ACACIA AURICULIFORMIS

DBH (in) - 24

Height (ft) - 40

Canopy Spread (ft) - 18

Condition - POOR

Native? -





Tree #10 is an Earleaf Acacia located on the northeast side of the property. It is in poor condition. There is limited rooting space. The secondary leader has died. The tree has low vigor and extensive dieback. Prune to remove the deadwood as soon as possible since it is over the parking lot. This species is highly invasive in South Florida and this tree will therefore need to be removed.

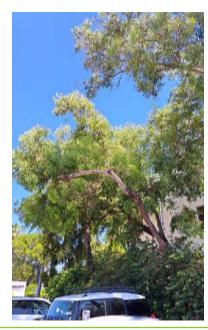
Common Name - EARLEAF ACACIA

Scientific Name - ACACIA AURICULIFORMIS **DBH (in)** - 24 **Height (ft)** - 40

Canopy Spread (ft) - 30

Condition - FAIR

Native? -





Tree #11 is an Earleaf Acacia located on the northeast side of the property. It is in fair condition. There is limited rooting space. There are large, over-extended limbs. The tree has poor form. There is included bark between the limbs.

Continue to prune to remove deadwood and to maintain clearance over the parking lot. This species is highly invasive in South Florida and this tree will therefore need to be removed.

Tree #12

Common Name - EARLEAF ACACIA

Scientific Name - ACACIA AURICULIFORMIS

DBH (in) - 12

Height (ft) - 40

Canopy Spread (ft) - 27

Condition - FAIR

Native? -





Tree #12 is an Earleaf Acacia located on the northeast side of the property. It is in fair condition. There is limited rooting space. The tree has a corrected lean.

Continue to prune to remove deadwood and to maintain clearance over the parking lot. This species is highly invasive in South Florida and this tree will therefore need to be removed.

Common Name -MEXICAN FAN PALM

Scientific Name - WASHINGTONIA ROBUSTA

DBH (in) - 16

Height (ft) - 40

Canopy Spread (ft) - 8

Condition - FAIR

NO NO





Tree #13 is a Mexican Fan Palm located on the northwest side of the property. It is in fair condition. Prune to remove the lower dead fronds.

Tree #14

Common Name - ROYAL PALM

Scientific Name - ROYSTONEA REGIA

DBH (in) - 14

Height (ft) - 50

Canopy Spread (ft) - 15

Condition - FAIR

Native? -





Tree #14 is a Royal Palm located on the northwest side of the property. It is in fair condition with a pencilling trunk. There are a number of injuries on the trunk.

Common Name -SILVER BUTTONWOOD

DBH (in) - 8 Height (ft) - 15

Condition -Native? -GOOD YES

Scientific Name -CONOCARPUS ERECTUS VAR. Canopy Spread (ft) - 18

SERICEUS





Tree #15 is a Silver Buttonwood street tree located along Alton Road. It is growing in a 16ft wide planting strip. The tree is in good condition with good vigor. Prune to maintain clearance over the sidewalk.

Tree #16

Common Name -SILVER BUTTONWOOD

DBH (in) - 8 **Height (ft) - 15**

Canopy Spread (ft) - 18

Condition -Native? -GOOD YES

CONOCARPUS ERECTUS VAR.

Scientific Name -**SERICEUS**





Tree #16 is a Silver Buttonwood street tree located along Alton Road. It is growing in a 16ft wide planting strip. The tree is in good condition with good vigor.

Prune to maintain clearance over the sidewalk.

Common Name - ROYAL PALM

Scientific Name - ROYSTONEA REGIA

DBH (in) - 16

Height (ft) - 45

Canopy Spread (ft) - 16

Condition - FAIR

Native? -





Tree #17 is a Royal Palm located on the western side of the property. It is in fair condition with a narrowing trunk.

Tree #18

Common Name -LIVE OAK

Scientific Name - QUERCUS VIRGINIANA

DBH (in) - 6

Height (ft) - 20

Canopy Spread (ft) - 18

Condition - GOOD

Native? -





Tree #18 is a Live Oak street tree located along Alton Road. It is in good condition and is growing in a 10ft wide planting swale.

Prune to increase clearance over the sidewalk and the street.

Common Name - SYLVESTER PALM

Scientific Name - PHOENIX SYLVESTRIS

DBH (in) - 12

Height (ft) - 25

Canopy Spread (ft) - 12

Condition - GOOD

Native? -





Tree #19 is a Sylvester Palm street tree located along Alton Road. It is in good condition and is growing in a 10ft wide planting swale.

Tree #20

Common Name -LIVE OAK

Scientific Name - QUERCUS VIRGINIANA

DBH (in) - 9

Height (ft) - 20

Canopy Spread (ft) - 18

Condition - GOOD

Native? -







Tree #20 is a Live Oak street tree located along Alton Road. It is in good condition and is growing in a 10ft wide planting swale.

Prune to increase clearance over the sidewalk and the street.

Common Name - SYLVESTER PALM

Scientific Name - PHOENIX SYLVESTRIS

DBH (in) - 12

Height (ft) - 25

Canopy Spread (ft) - 12

Condition - GOOD

Native? -





Tree #21 is a Sylvester Palm street tree located along Alton Road. It is in good condition and is growing in a 10ft wide planting swale. There is some yellowing on the fronds.

Tree #22

Common Name -LIVE OAK

Scientific Name - QUERCUS VIRGINIANA

DBH (in) - 6

Height (ft) - 18

Canopy Spread (ft) - 18

Condition - GOOD

Native? -





Tree #22 is a Live Oak street tree located along Alton Road. It is in good condition and is growing in a 10ft wide planting swale.

Prune to increase clearance over the sidewalk and the street.

Common Name -SYLVESTER PALM

DBH (in) - 14 Height (ft) - 25

Condition -Native? -GOOD NO

Scientific Name -PHOENIX SYLVESTRIS Canopy Spread (ft) - 12





Tree #23 is a Sylvester Palm street tree located along Alton Road. It is in good condition and is growing in a 10ft wide planting swale.

Tree #24

Common Name -ROYAL PALM

Scientific Name -ROYSTONEA REGIA

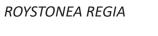
DBH (in) - 16

Height (ft) - 40

Canopy Spread (ft) - 20

Condition -GOOD

Native? -YES







Tree #24 is a Royal Palm located on the western side of the property. It is in good condition with healthy green fronds.

Common Name - DATE PALM

Scientific Name - PHOENIX DACTYLIFERA

DBH (in) - 18

Height (ft) - 28

Canopy Spread (ft) - 20

Condition - GOOD

Native? -





Tree #25 is a Date Palm located in the right-of-way area between Alton Road and 19th Street. It is in good condition. There is some growth at the base of the trunk. This tree is a good candidate for relocation.

Tree #26

Common Name - SABAL PALM

Scientific Name - SABAL PALMETTO

DBH (in) - 13

Height (ft) - 25

Canopy Spread (ft) - 15

Condition - GOOD

Native? -





Tree #26 is a Sabal Palm located in the southwest corner of the property. It is in good condition.

Common Name -LIVE OAK

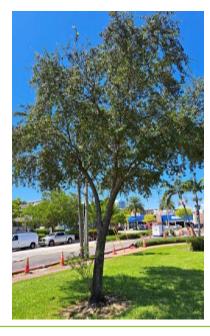
Scientific Name -**QUERCUS VIRGINIANA** **DBH (in) - 12**

Height (ft) - 30

Canopy Spread (ft) - 25

Condition -GOOD

Native? -YES





Tree #27 is a Live Oak located in the right-of-way area between Alton Road and 19th Street. It is in good condition. The tree has a nice, symmetrical form. There are many large surface roots. There is some sprout growth from the base of the trunk. Overhead wires are along 19th Street. This tree is a good

candidate for relocation.

Tree #28

Common Name -ROYAL PALM

Scientific Name -ROYSTONEA REGIA

DBH (in) - 12.5

Height (ft) - 40

Canopy Spread (ft) - 14

Condition -**POOR**

Native? -YES





Tree #28 is a Royal Palm located on the south side of the property. The tree is in poor condition with a trunk constriction and chlorotic fronds. OVerhead wires are nearby.

Common Name -MONTGOMERY PALM, DOUBLE **DBH (in) -** 7, 7 Height (ft) - 25

Condition -Native? -GOOD NO

Scientific Name -**VEITCHIA ARECINA**

Canopy Spread (ft) - 20





Tree #29 is a double Montgomery Palm street tree located at the corner of Alton Road and 19th Street. It is in good condition. There are some trunk constrictions.

Tree #30

Common Name -ROYAL PALM

Scientific Name -ROYSTONEA REGIA

DBH (in) - 14

Height (ft) - 50

Canopy Spread (ft) - 15

Condition -**FAIR**

Native? -YES





Tree #30 is a Royal Palm located on the south side of the property. It is in fair condition with a narrowing trunk. Overhead wires are nearby.

Common Name -MEXICAN FAN PALM

Scientific Name -WASHINGTONIA ROBUSTA **DBH (in) - 14**

Height (ft) - 40

Canopy Spread (ft) - 12

Condition -GOOD

Native? -NO





Tree #31 is a Mexican Fan Palm located in the existing parking lot. It is in good condition. Prune to remove the lower dead fronds.

Tree #32

Common Name -QUEEN PALM

Scientific Name -SYAGRUS ROMANZOFFIANA **DBH (in) -** 8

Height (ft) - 25

Canopy Spread (ft) - 10

Condition -POOR

Native? -NO







Tree #32 is a Queen Palm located in the existing parking lot. It is in poor condition with a trunk constriction and a thin, chlorotic canopy.

Common Name - ROYAL PALM

Scientific Name - ROYSTONEA REGIA

DBH (in) - 17 **Height (ft)** - 50

Canopy Spread (ft) - 16

Condition - GOOD

Native? -





Tree #33 is a Royal Palm located on the south side of the property. It is in good condition.

Overhead wires are nearby.

Notes - TPZ Calculations & Tree and Palm Relocation

Tree Protection Zone (TPZ) -

- For trees and palms that are to remain, protective barriers shall be placed at the dripline or 10ft radius from the trunk, whichever is greater.
- For trees and palms that are relocated, protective barriers shall be placed at the dripline or 1 2ft outside the rootball, whichever is greater.

Tree and Palm Relocation Notes -

- 1. All phases of transplanting trees and palms to be performed or supervised by Certified Arborist.
- 2. Trees to be relocated shall be root pruned six to eight weeks prior to transplanting. Landscape Contractor shall maintain transplanted material during construction period by watering, moving, spraying, fertilizing, and pruning.
- 3. Landscape Contractor is responsible for verifying locations of all underground and overhead utilities and easements prior to commencing work. All utility companies and/or the General Contractor shall be notified to verify locations prior to digging. Utility trenching is to be coordinated with the Landscape Contractor prior to beginning of project. The Owner and Certified Arborist shall not be responsible for damage to utility or irrigation lines.
- 4. The Landscape Contractor shall comply with all local and state codes and shall be responsible for obtaining all applicable permits.
- 5. The Landscape Contractor shall regularly inspect the relocated material to ensure compliance with standard horticultural practices.
- 6. The Landscape Contractor is responsible for guaranteeing the transplanted trees and palms for a period of one year. At the time of the final inspection all transplanted trees and palms that are not in viable condition shall be replaced by the Landscape Contractor.
- 7. The Landscape Contractor shall take all precautions to minimize shock of root pruning and transplanting in accordance with standard arboriculture practices.
- 8. The diameter of the root ball to be transplanted shall follow the guidelines set forth in the latest edition of the Florida Grades and Standards for Nursery Plants.
- 9. Roots shall be cleanly cut with a sharp spade, hand saw, chainsaw, or other approved root-pruning equipment.
- 10. Trees shall not be pruned at transplanting to compensate for root loss. Any pruning required shall be as per the ANSI A300 Standards.
- 11. For all palms except Sabal palmetto, only dead fronds shall be removed. Sabal palmetto shall have all fronds cut without damaging the bud. Fronds shall be securely tied around the bud prior to relocation and shall be untied after placement in the new planting hole. The bud shall be protected from damage or injury during relocation.
- 12. After root pruning trees, backfill roots to original existing grade with existing soil free of any deleterious material to root growth.
- 13. Provide a layer of 3" mulch over backfill area to prevent weed growth, conserve moisture and prevent evaporation. Keep mulch 6" away from the trunk.
- 14. Provide tree protection as per Landscape Architect's Tree Protection Detail to ensure that the tree or root system is not damaged during the root-pruning period.
- 15. After root pruning and prior to relocation, tree(s) shall be watered a minimum of twice weekly.
- 16. Transplanting shall occur within 24 hours after being dug for relocation. The root ball shall be kept moist.
- 17. Digging and preparation of the new hole for the transplant shall be done prior to removing the tree from the existing location.
- 18. The depth of the new hole shall be equal to the depth of the root ball and the width shall be equal to two to three times the width of the root ball.
- 19. Trees and palms shall be lifted from the ground with heavy equipment designed specifically for tree relocation so that the trunk and crown is not impacted and damaged by the equipment.
- 20. The slings used to lift the trees and large palms shall be non-binding nylon slings that are wrapped under the root ball to support the weight of tree or palm. Slings shall not be solely wrapped around the trunk of the tree. Padding the sling may be necessary so that the trunk is not damaged.

Notes - Tree and Palm Relocation (Contd.)

last 6 months - 1 time per week.

- 21. Trees and palms shall be planted so that the top of the rootball is flush with the existing grade. Ensure that deep planting does not occur. The tree and palm shall be centrally positioned in the planting hole and set straight, plumb or normal to the growth pattern prior to transplanting.
- 22. Transplanted trees and palms shall be backfield with a uniform mix of 25% fully decomposed compost and 75% existing site soil cleaned free of weeds and rocks.
- 23. Trees and palms shall be watered to eliminate air pockets in the backfill mix prior to mulching.
- 24. A 4" soil berm shall be created around the edge of the planting hole to hold water, or as per the Landscape Architect's Planting Details.
- 25. Install tree and palm bracing as per the Landscape Architect's Planting Details, to ensure stability of trees and palms.
 26. After transplanting trees and palms, the Landscape Contractor shall be responsible for watering to maintain soil moisture during the guarantee period. The following schedule is suggested: First month Daily; Second month 3 times per week; Third and Fourth month 2 times per week; Last Eight months 1 time per week. For trees over 4" in caliper at the time of planting, the suggested schedule is: First 6 weeks Daily; from 1.5 months to 6 months 3 times per week,

Notes - Tree and Palm Protection

- 1. Fences shall be erected to protect trees and palms to be preserved. Fences define a specific protection zone for each tree or group of trees. Fences shall be installed prior to the beginning of construction and are to remain until all site work has been completed. Fences may not be relocated or removed without the written permission of the Arborist. Refer to the Landscape Architect's Tree Protection Detail.
- 2. Construction trailers, traffic, and storage areas must remain outside fenced areas at all times.
- 3. All underground utilities and drain or irrigation lines shall be routed outside the tree protection zone. If lines must traverse the protection area, disturbance shall be minimized by using techniques such as tunneling or boring.
- 4. No materials, equipment, spoil, or waste or washout water may be deposited, stored, or parked within the tree protection zone.
- 5. Additional tree pruning required for clearance during construction must be approved by the Certified Arborist and shall be performed by trained arborists, not by construction personnel.
- 6. If injury should occur to any tree during construction, it should be evaluated as soon as possible by the Landscape Contractor and the Certified Arborist should be notified immediately.
- 7. Any grading, construction, demolition, or other work that is expected to encounter tree roots must be monitored by the Landscape Contractor.
- 8. All trees shall be irrigated at least two times a week. Each irrigation session shall wet the soil within the tree protection zone to a depth of 30 inches.
- 9. Before grading, pad preparation, or excavation for foundations, footings, walls, or trenching near trees the trees shall be root pruned at the edge of the tree protection zone by cutting all roots cleanly to a depth of 36 inches. Roots shall be cut manually by digging a trench and cutting exposed roots with a saw, vibrating knife, rock saw, narrow trencher with sharp blades, or other approved root-pruning equipment.
- 10. Any roots damaged during grading or construction shall be exposed to sound tissue and cut cleanly with a saw.
- 11. Spoil from trenches, basements, or other excavations shall not be placed within the tree protection zone, either temporarily or permanently.
- 12. No burn piles or debris pits shall be placed within the tree protection zone. No ashes, debris, or garbage may be dumped or buried within the tree protection zone.
- 13. Maintain fire-safe areas around the fences. Also, no heat sources, flames, ignition sources, or smoking is allowed near mulch or trees.
- 14. Protective barriers shall be placed around each tree, cluster of trees, or the edge of the preservation area at the specified distance. Protective barriers shall be a minimum of four feet above ground level and shall be constructed of wood, plastic, or metal, and shall remain in place until development is completed. Protective barriers shall be in place prior to the start of any construction.
- 15. Understory plants within protective barriers shall be protected.
- 16. No excess oil, fill, equipment, building materials or building debris shall be placed within the areas surrounded by protective barriers, nor shall there be disposal of any waste material such as paints, oils, solvents, asphalt, concrete, mortar or any other material harmful to trees or understory plants within the areas surrounded by protective barriers.
- 17. Trees shall not be braced in such a fashion as to scar, penetrate, perforate or otherwise inflict damage to the tree.
- 18. Natural grade shall be maintained within protective barriers. In the event that the natural grade of the site is changed as a result of site development such that the safety of the tree may be endangered, tree wells or retaining walls are required.
- 19. Fences and walls shall be constructed to avoid disturbance to any protected tree. Post holes and trenches located close to trees shall be dug by hand and adjusted as necessary, using techniques such as discontinuous footings, to avoid damage to major roots.

Note: Trees inherently pose a certain degree of hazard and risk from breakage, failure or other causes and conditions. Recommendations that are made are intended to minimize or reduce such hazardous conditions. However, there can be no guarantee or warranty that efforts to discover or correct unsafe conditions will prevent future breakage or failure, nor can there be any guarantee that all hazardous conditions have been detected. The client should not infer that a tree is safe either because services have been recommended or done to reduce risk, or because no services have been recommended or done on a specific tree. The client assumes any and all risks associated with pursuing consultant's advice and fully understands that he or she is engaged in securing professional consultation regarding the above-mentioned property.