



ALVEY TREE CONSULTING LLC

ALEXIS ALVEY -

ISA BOARD CERTIFIED MASTER ARBORIST®

#NY-5539B

# Specimen Trees Report

8 - 14 Star Island Drive

Miami Beach

7/19/2024



# Specimen Trees Report

7/19/2024

From June 18th to July 11th 2024, I visited the properties located at 8 - 14 Star Island Drive at the request of Christopher Cawley Landscape Architecture. I evaluated the specimen 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); determined the Tree Protection Zone for specimen trees to remain; provided relevant comments about health and condition; and took photographs. Street trees are included.

For tree disposition, please see the landscape plans. Trees that are dead, are in poor condition, or are invasive are recommended for removal. For trees that are to remain, protective barriers shall be placed at the dripline or 10ft radius from the tree 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. All ANSI A300 Standards shall be followed.

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.



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

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## **Property Location -**

8, 9, 10, 11, 12, 13, & 14 Star Island Drive  
Miami Beach, FL 33139

## **Client -**

Christopher Cawley Landscape Architecture, LLC  
780 NE 69th Street, Suite 200  
Miami, FL 33138  
786.534.5327 / chris@christophercawley.com

○ Approximate Location of Additional Site or Street Tree

✗ Tree Not on Site



○ Approximate Location of Additional Site or Street Tree

✗ Tree Not on Site

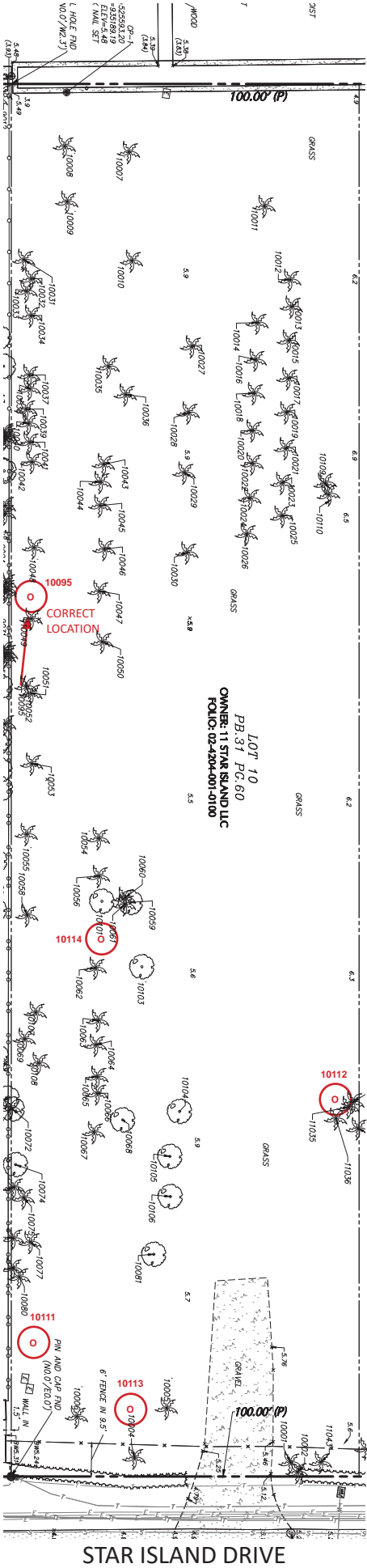


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# Tree Location Diagram - Lot 10

- Approximate Location of Additional Site or Street Tree
- ✗ Tree Not on Site

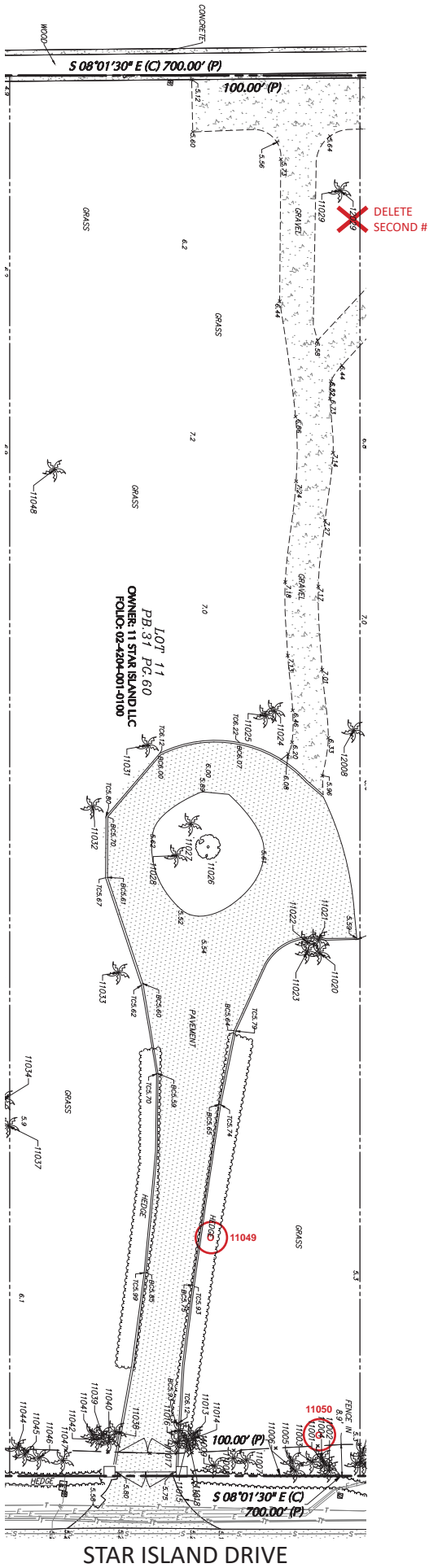
NOT TO SCALE





# Tree Location Diagram - Lot 11

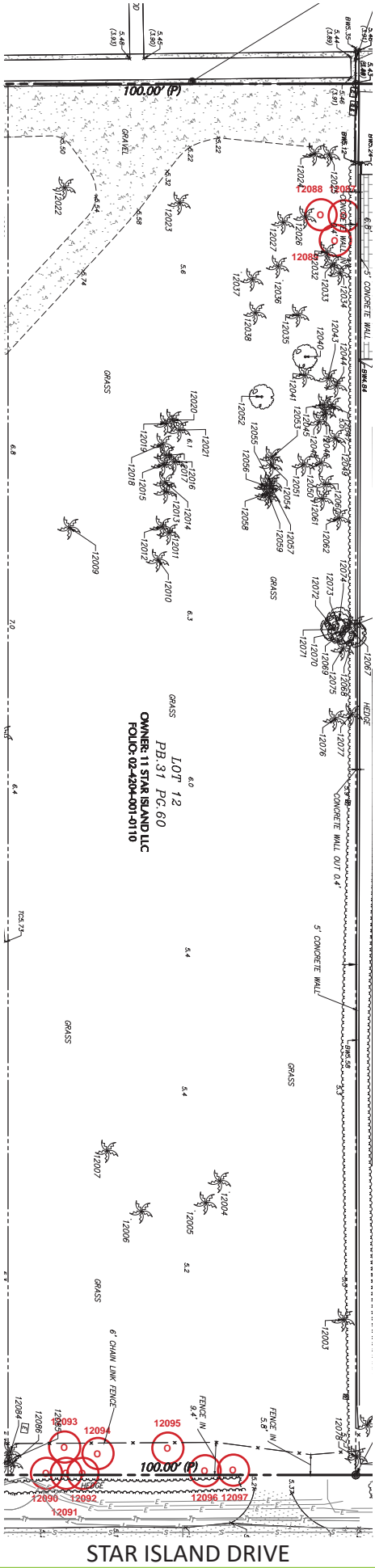
-  Approximate Location of Additional Site or Street Tree
-  Tree Not on Site

NOT TO SCALE



# Tree Location Diagram - Lot 12

-  Approximate Location of Additional Site or Street Tree
-  Tree Not on Site



NOT TO SCALE

STAR ISLAND DRIVE



Tree Not on Site

STAR ISLAND DRIVE



○ Approximate Location of Additional Site or Street Tree

✗ Tree Not on Site



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# Specimen Trees Table

## SPECIMEN TREES - Star Island Drive, Lots 8 - 14

| LOT | NUMBER   | COMMON NAME          | BOTANICAL NAME          | SPECIMEN | D.B.H. (IN) | HEIGHT (FT) | SPREAD (FT) | CONDITION | TPZ RADIUS IF REMAIN (FT) | NOTES       |
|-----|----------|----------------------|-------------------------|----------|-------------|-------------|-------------|-----------|---------------------------|-------------|
| 8   | 8043     | SEAGRAPE TREE        | Coccoloba uvifera       | yes      | 24"         | 26          | 18'         | poor      | 10'                       |             |
| 8   | 8077     | PINK TRUMPET TREE    | Tabebuia heterophylla   | yes      | 12"         | 38'         | 24'         | fair      | 12'                       |             |
| 8   | 8091     | PINK TRUMPET TREE    | Tabebuia heterophylla   | yes      | 13"         | 28'         | 26'         | poor      | 13'                       |             |
| 8   | 8097     | SAPODILLA            | Manilkara zapota        | yes      | 12"         | 40'         | 30'         | fair      | 15'                       |             |
| 8   | 8107     | MANGO TREE           | Mangifera indica        | yes      | 15"         | 26'         | 22'         | good      | 11'                       |             |
| 8   | 8112     | MANGO TREE           | Mangifera indica        | yes      | 12"         | 24'         | 24'         | fair      | 12'                       |             |
| 8   | 9067     | ROYAL POINCIANA TREE | Delonix regia           | yes      | 13"         | 25'         | 30'         | good      | 15'                       | street tree |
| 8   | 9068     | ROYAL POINCIANA TREE | Delonix regia           | yes      | 16"         | 32'         | 40'         | fair      | 20'                       | street tree |
| 9   | 8132     | NORFOLK ISLAND PINE  | Araucaria heterophylla  | yes      | 20"         | 50'         | 10'         | good      | 10'                       |             |
| 9   | 9017     | MANGO TREE           | Mangifera indica        | yes      | 12"         | 24'         | 26'         | fair      | 13'                       |             |
| 9   | 9053     | GUAVA                | Psidium guajava         | yes      | 16"         | 14'         | 20'         | fair      | 10'                       |             |
| 9   | 9055     | WILD TAMARIND        | Lysiloma latisiliquum   | yes      | 13"         | 15          | 18'         | poor      | 10'                       | windthrown  |
| 9   | 9056     | MANGO TREE           | Mangifera indica        | yes      | 15"         | 30'         | 30'         | poor      | 15'                       |             |
| 9   | 9059     | SAPODILLA            | Manilkara zapota        | yes      | 15"         | 30'         | 30'         | good      | 15'                       |             |
| 9   | 9063     | RAINBOW EUCALYPTUS   | Eucalyptus deglupta     | yes      | 12"         | 40'         | 36'         | fair      | 18'                       |             |
| 9   | 9065     | ROYAL POINCIANA TREE | Delonix regia           | yes      | 26"         | 40'         | 40'         | good      | 20'                       | street tree |
| 10  | 10081    | FRANGIPANI           | Plumeria rubra          | yes      | 14"         | 20'         | 20'         | fair      | 10'                       |             |
| 11  | 11026    | LIVE OAK             | Quercus virginiana      | Yes      | 36"         | 45'         | 60'         | poor      | 30'                       |             |
| 12  | 12040    | MAHOGANY             | Swietenia mahagoni      | Yes      | 20"         | 20          | 10'         | poor      | 10'                       | hatracked   |
| 12  | 12069-70 | JAPANESE YEW         | Podocarpus macrophyllus | Yes      | 12"         | 25'         | 10'         | good      | 10'                       |             |
| 12  | 12071-72 | JAPANESE YEW         | Podocarpus macrophyllus | Yes      | 14"         | 25'         | 10'         | good      | 10'                       |             |
| 12  | 12073-74 | JAPANESE YEW         | Podocarpus macrophyllus | Yes      | 16"         | 25          | 10'         | good      | 10'                       |             |
| 13  | 13008    | JAPANESE PRIVET      | Ligustrum japonicum     | yes      | 12"         | 15'         | 14'         | good      | 10'                       |             |
| 13  | 13011    | JAPANESE PRIVET      | Ligustrum japonicum     | yes      | 14"         | 15'         | 14'         | good      | 10'                       |             |
| 14  | 14094    | MANGO TREE           | Mangifera indica        | yes      | 21"         | 32'         | 30'         | good      | 15'                       |             |
| 14  | 14102    | YELLOW POINCIANA     | Peltophorum pterocarpum | yes      | 20"         | 41'         | 36'         | fair      | 18'                       |             |
| 14  | 14105    | YELLOW POINCIANA     | Peltophorum pterocarpum | yes      | 15"         | 42'         | 34'         | fair      | 17'                       |             |

## Tree #8043

**Common Name -**  
SEAGRAPE TREE

**DBH (in) -** 24"

**Height (ft) -** 26'

**Condition -**  
poor

**Lot # -**  
8

**Scientific Name -**  
*Coccoloba uvifera*

**Canopy Spread (ft) -** 18'

**Disposition -**  
10' radius TPZ



Tree #8043 is a SEAGRAPE TREE in poor condition. It is located on lot #8. The tree is double-trunked and there are a number of broken limbs. The canopy curves into the neighbor's yard. A large broken main limb is hanging over the water. There are many dead branches.

## Tree #8077

**Common Name -**  
PINK TRUMPET TREE

**DBH (in) -** 12"

**Height (ft) -** 38'

**Condition -**  
fair

**Lot # -**  
8

**Scientific Name -**  
*Tabebuia heterophylla*

**Canopy Spread (ft) -** 24'

**Disposition -**  
12' radius TPZ



Tree #8077 is a PINK TRUMPET TREE in fair condition. It is located on lot #8. There is a small pocket of potential decay at the base of the trunk and adventitious root growth. Pests are affecting the foliage. Small deadwood is present.



## Tree #8091

**Common Name -**  
PINK TRUMPET TREE

**DBH (in) -** 13"  
**Height (ft) -** 28"

**Condition -**  
poor

**Lot # -**  
8

**Scientific Name -**  
*Tabebuia heterophylla*

**Canopy Spread (ft) -** 26'

**Disposition -**  
13' radius TPZ



Tree #8091 is a PINK TRUMPET TREE in poor condition. It is located on lot #8. The tree has low vigor and moderately sized deadwood. The tree has poor form and included bark is between the limbs. Pests are affecting the foliage.

## Tree #8097

**Common Name -**  
SAPODILLA

**DBH (in) -** 12"  
**Height (ft) -** 40"

**Condition -**  
fair

**Lot # -**  
8

**Scientific Name -**  
*Manilkara zapota*

**Canopy Spread (ft) -** 30'

**Disposition -**  
15' radius TPZ



Tree #8097 is a SAPODILLA in fair condition. It is located on lot #8. It has a dense canopy with healthy new foliage. The canopy is asymmetrical and there are long, curving branches.



## Tree #8107

**Common Name -**  
MANGO TREE

**Scientific Name -**  
*Mangifera indica*

**DBH (in) -** 15"

**Height (ft) -** 26"

**Canopy Spread (ft) -** 22'

**Condition -**  
good

**Lot # -**  
8

**Disposition -**  
11' radius TPZ



Tree #8107 is a MANGO TREE in good condition. It is located on lot #8. It is multi-trunked and has good vigor. Some deadwood is present.

## Tree #8112

**Common Name -**  
MANGO TREE

**Scientific Name -**  
*Mangifera indica*

**DBH (in) -** 12"

**Height (ft) -** 24"

**Canopy Spread (ft) -** 24'

**Condition -**  
fair

**Lot # -**  
8

**Disposition -**  
12' radius TPZ



Tree #8112 is a MANGO TREE in fair condition. It is located on lot #8. The main limbs originate from the same point on the trunk. The tree has low vigor and there are branch stubs with decay.



## Tree #9067

**Common Name -**  
ROYAL POINCIANA TREE

**Scientific Name -**  
*Delonix regia*

**DBH (in) - 13"**  
**Height (ft) - 25"**

**Canopy Spread (ft) - 30'**

**Condition -**  
good

**Lot # -**  
8

**Disposition -**  
15' radius TPZ



Tree #9067 is a ROYAL POINCIANA TREE in good condition. It is located in front of lot #8. It is a street tree with a nice form. There is a large girdling root which should be removed (circled in red). There are a number of branch stubs with decay and crossing limbs. Prune to increase clearance over the street. Prune to remove deadwood.

## Tree #9068

**Common Name -**  
ROYAL POINCIANA TREE

**Scientific Name -**  
*Delonix regia*

**DBH (in) - 16"**  
**Height (ft) - 32"**

**Canopy Spread (ft) - 40'**

**Condition -**  
fair

**Lot # -**  
8

**Disposition -**  
20' radius TPZ



Tree #9068 is a ROYAL POINCIANA TREE in fair condition. It is located in front of lot #8 and is a street tree. The tree has large heading cuts from poor pruning and an asymmetrical canopy. Prune to maintain clearance over the street. Prune to remove deadwood.

## Tree #8132

**Common Name -**  
NORFOLK ISLAND PINE

**Scientific Name -**  
*Araucaria heterophylla*

**DBH (in) -** 20"  
**Height (ft) -** 50"

**Canopy Spread (ft) -** 10'

**Condition -**  
good

**Lot # -**  
9

**Disposition -**  
10' radius TPZ



Tree #8132 is a NORFOLK ISLAND PINE in good condition. It is located on lot #9. The trunk divides into two with included bark.

## Tree #9017

**Common Name -**  
MANGO TREE

**Scientific Name -**  
*Mangifera indica*

**DBH (in) -** 12"  
**Height (ft) -** 24"

**Canopy Spread (ft) -** 26'

**Condition -**  
fair

**Lot # -**  
9

**Disposition -**  
13' radius TPZ



Tree #9017 is a MANGO TREE in fair condition. It is located on lot #9. There is small deadwood and an old pruning cut with wetwood. The foliage is slightly chlorotic.



## Tree #9053

**Common Name -**  
GUAVA

**DBH (in) -** 16''  
**Height (ft) -** 14''

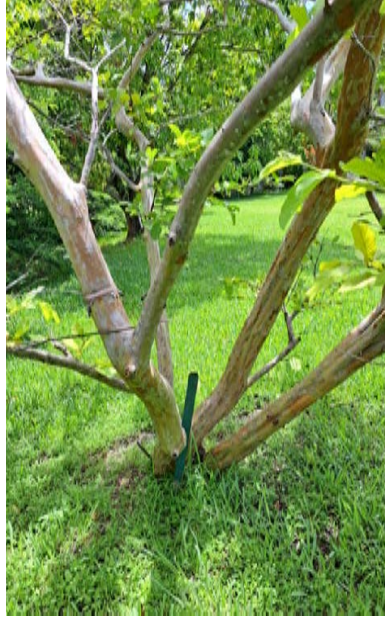
**Condition -**  
fair

**Lot # -**  
9

**Scientific Name -**  
*Psidium guajava*

**Canopy Spread (ft) -** 20'

**Disposition -**  
10' radius TPZ



Tree #9053 is a GUAVA in fair condition. It is located on lot #9. It is multi-trunked with a nice form. The foliage is very chlorotic and there is some dieback.

## Tree #9055

**Common Name -**  
WILD TAMARIND

**DBH (in) -** 13''  
**Height (ft) -** 15'

**Condition -**  
poor

**Lot # -**  
9

**Scientific Name -**  
*Lysiloma latisiliquum*

**Canopy Spread (ft) -** 18'

**Disposition -**  
10' radius TPZ



Tree #9055 is a WILD TAMARIND in poor condition. It is located on lot #9. The tree has been windthrown and there is extensive decay. The remaining canopy has been hatracked.



## Tree #9056

**Common Name -**  
MANGO TREE

**DBH (in) -** 15"  
**Height (ft) -** 30"

**Condition -**  
poor

**Lot # -**  
9

**Scientific Name -**  
*Mangifera indica*

**Canopy Spread (ft) -** 30'

**Disposition -**  
15' radius TPZ



Tree #9056 is a MANGO TREE in poor condition. It is located on lot #9. There are long, overextended limbs and a crack in a limb. A number of limbs have been hatracked. The foliage is chlorotic.

## Tree #9059

**Common Name -**  
SAPODILLA

**DBH (in) -** 15"  
**Height (ft) -** 30"

**Condition -**  
good

**Lot # -**  
9

**Scientific Name -**  
*Manilkara zapota*

**Canopy Spread (ft) -** 30'

**Disposition -**  
15' radius TPZ



Tree #9059 is a SAPODILLA in good condition. It is located on lot #9. The tree has a dense canopy and a nice form. Some interior branch stubs are present.



## Tree #9063

**Common Name -**  
RAINBOW EUCALYPTUS

**DBH (in) -** 12"  
**Height (ft) -** 40"

**Condition -**  
fair

**Lot # -**  
9

**Scientific Name -**  
*Eucalyptus deglupta*

**Canopy Spread (ft) -** 36'

**Disposition -**  
18' radius TPZ



Tree #9063 is a RAINBOW EUCALYPTUS in fair condition. It is located on lot #9. The trunk divides into two with included bark. Small deadwood is present. There are long, overextended limbs. The foliage is chlorotic, and the canopy is thin.

## Tree #9065

**Common Name -**  
ROYAL POINCIANA TREE

**DBH (in) -** 26"  
**Height (ft) -** 40"

**Condition -**  
good

**Lot # -**  
9

**Scientific Name -**  
*Delonix regia*

**Canopy Spread (ft) -** 40'

**Disposition -**  
20' radius TPZ



Tree #9065 is a ROYAL POINCIANA TREE in good condition. It is located in front of lot #9. It is a street tree with nice form. Large buttress roots are present. Old pruning cuts are not closing over well and have some decay. Prune to remove deadwood. Prune to increase clearance over the street.



## Tree #10081

**Common Name -**  
FRANGIPANI

**Scientific Name -**  
*Plumeria rubra*

**DBH (in) -** 14"

**Height (ft) -** 20"

**Canopy Spread (ft) -** 20'

**Condition -**  
fair

**Lot # -**  
10

**Disposition -**  
10' radius TPZ



Tree #10081 is a FRANGIPANI in fair condition. It is located on lot #10. It is multi-trunked and has low vigor. There is deadwood and branch stubs present. Old pruning cuts are not closing over well.

## Tree #11026

**Common Name -**  
LIVE OAK

**Scientific Name -**  
*Quercus virginiana*

**DBH (in) -** 36"

**Height (ft) -** 45"

**Canopy Spread (ft) -** 60'

**Condition -**  
poor

**Lot # -**  
11

**Disposition -**  
30' radius TPZ



Tree #11026 is a LIVE OAK in poor condition. It is located on lot #11. The canopy is thin and there is not much foliage remaining. There is dieback at the top of the canopy. There is a large staghorn fern on the tree. A decay conk was observed at the base of the trunk. There is bark missing from about 75% of the circumference of one of the three main leaders. Old pruning cuts are not closing over.



## Tree #12040

**Common Name -**  
MAHOGANY

**DBH (in) -** 20"

**Height (ft) -** 20'

**Condition -**  
poor

**Lot # -**  
12

**Scientific Name -**  
*Swietenia mahagoni*

**Canopy Spread (ft) -** 10'

**Disposition -**  
10' radius TPZ



Tree #12040 is a MAHOGANY in poor condition. It is located on lot #12. The canopy has been hatracked and not much of the tree remains. There is included bark between the leaders.

## Tree #12069-70

**Common Name -**  
JAPANESE YEW

**DBH (in) -** 12"

**Height (ft) -** 25"

**Condition -**  
good

**Lot # -**  
12

**Scientific Name -**  
*Podocarpus macrophyllus*

**Canopy Spread (ft) -** 10'

**Disposition -**  
10' radius TPZ



Tree #12069-70 is a JAPANESE YEW in good condition. It is located on lot #12. It is one tree that is multi-trunked. The tree is vigorous with healthy new growth.

## Tree #12071-72

**Common Name -**  
JAPANESE YEW

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

**Condition -**  
good

**Lot # -**  
12

**Scientific Name -**  
*Podocarpus macrophyllus*

**Canopy Spread (ft) -** 10'

**Disposition -**  
10' radius TPZ



Tree #12071-72 is a JAPANESE YEW in good condition. It is located on lot #12. It is one tree that is multi-trunked. The tree is vigorous with healthy new growth.

## Tree #12073-74

**Common Name -**  
JAPANESE YEW

**DBH (in) -** 16"  
**Height (ft) -** 25'

**Condition -**  
good

**Lot # -**  
12

**Scientific Name -**  
*Podocarpus macrophyllus*

**Canopy Spread (ft) -** 10'

**Disposition -**  
10' radius TPZ



Tree #12073-74 is a JAPANESE YEW in good condition. It is located on lot #12. It is one tree that is multi-trunked. The tree is vigorous with healthy new growth.



## Tree #13008

**Common Name -**  
JAPANESE PRIVET

**Scientific Name -**  
*Ligustrum japonicum*

**DBH (in) - 12"**  
**Height (ft) - 15"**

**Canopy Spread (ft) - 14'**

**Condition -**  
good

**Lot # -**  
13

**Disposition -**  
10' radius TPZ



Tree #13008 is a JAPANESE PRIVET in good condition. It is located on lot #13. It is multi-trunked and forms a hedge with the other nearby privet.

## Tree #13011

**Common Name -**  
JAPANESE PRIVET

**Scientific Name -**  
*Ligustrum japonicum*

**DBH (in) - 14"**  
**Height (ft) - 15"**

**Canopy Spread (ft) - 14'**

**Condition -**  
good

**Lot # -**  
13

**Disposition -**  
10' radius TPZ



Tree #13011 is a JAPANESE PRIVET in good condition. It is located on lot #13. It is multi-trunked and forms a hedge with the other nearby privet. Decay was observed in one leader.



## Tree #14094

**Common Name -**  
MANGO TREE

**Scientific Name -**  
*Mangifera indica*

**DBH (in) -** 21"

**Height (ft) -** 32"

**Canopy Spread (ft) -** 30'

**Condition -**  
good

**Lot # -**  
14

**Disposition -**  
15' radius TPZ



Tree #14094 is a MANGO TREE in good condition. It is located on lot #14. The tree has a dense green canopy with little deadwood. There are many fruits at this time of year. Old pruning cuts are closing over slowly.

## Tree #14102

**Common Name -**  
YELLOW POINCIANA

**Scientific Name -**  
*Peltophorum pterocarpum*

**DBH (in) -** 20"

**Height (ft) -** 41"

**Canopy Spread (ft) -** 36'

**Condition -**  
fair

**Lot # -**  
14

**Disposition -**  
18' radius TPZ



Tree #14102 is a YELLOW POINCIANA in fair condition. It is located on lot #14. There is included bark between the main leaders. The tree has a low live crown ratio and small interior deadwood. Large surface roots are present and old pruning cuts are closing over slowly.

## Tree #14105

**Common Name -**  
YELLOW POINCIANA

**Scientific Name -**  
*Peltophorum pterocarpum*

**DBH (in) - 15"**  
**Height (ft) - 42"**

**Canopy Spread (ft) - 34'**

**Condition -**  
fair

**Lot # -**  
14

**Disposition -**  
17' radius TPZ



Tree #14105 is a YELLOW POINCIANA in fair condition. It is located on lot #14. It is double-trunked with included bark. Old pruning cuts are closing over slowly. The tree has a low live crown ratio.

# 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.

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## Notes - Tree and Palm Relocation (Contd.)

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 backfilled 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, last 6 months - 1 time 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.*